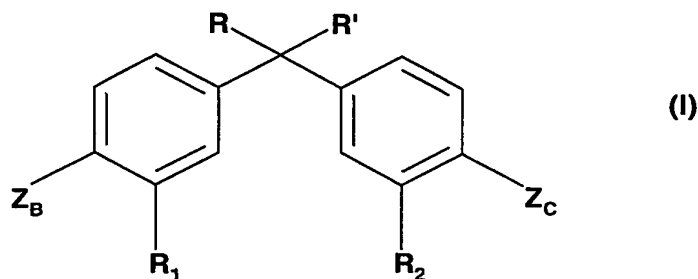


-241-

WE CLAIM:

1. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound represented by
 5 formula I or a pharmaceutically acceptable salt or a prodrug derivative thereof:

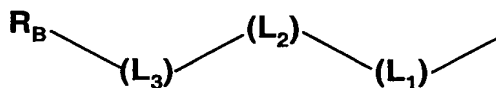


wherein;

- R and R' are independently C₁-C₅ alkyl, C₁-C₅ fluoroalkyl, or together R and R' form a substituted or unsubstituted, saturated or unsaturated carbocyclic ring having from
 10 3 to 8 carbon atoms;

R₁ and R₂ are independently selected from the group consisting of hydrogen, halo, C₁-C₅ alkyl, C₁-C₅ fluoroalkyl, -O-C₁-C₅ alkyl, -S-C₁-C₅ alkyl, -O-C₁-C₅ fluoroalkyl, -CN, -NO₂, acetyl, -S-C₁-C₅ fluoroalkyl, C₂-C₅ alkenyl, C₃-C₅ cycloalkyl, and C₃-C₅ cycloalkenyl;

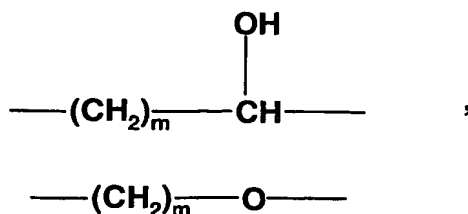
- 15 Z_B is a group represented by the formula:



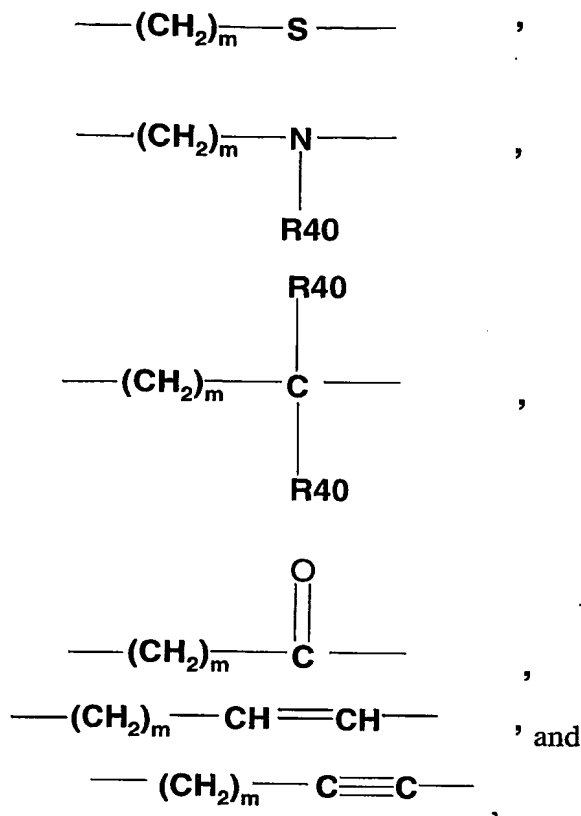
wherein

- 20 -(L₁), -(L₂), and -(L₃) is each a divalent linking groups independently selected from the group consisting of

a bond



-242-



where m is 0, 1, or 2, and each R40 is independently hydrogen, C₁-C₅ alkyl, or C₁-C₅ fluoroalkyl;

R_B is a branched C₃-C₅ alkyl;

Z_C is carbon atom linked group selected from:

-CO₂H,

-CO₂Me,

-CO₂Et,

-C(O)CH₂S(O)Me,

-C(O)CH₂S(O)Et,

-C(O)CH₂S(O)₂Me,

-C(O)CH₂S(O)₂Et,

-C(O)CH₂CH₂S(O)Me,

-C(O)CH₂CH₂S(O)Et,

-C(O)CH₂CH₂S(O)₂Me,

-C(O)CH₂CH₂S(O)₂Et,

-C(O)CH(Me)CH₂CO₂H,

-243-

5
10
15
20

-C(O)CH(Me)CH₂CO₂Me,
-C(O)CH(Me)CH₂CO₂Et,
-C(O)CH(Me)CH₂CO₂iPr,
-C(O)CH(Me)CH₂CO₂tBu,
-C(O)CH(Me)CH(Me)CO₂H,
-C(O)CH(Me)CH(Me)CO₂Me,
-C(O)CH(Me)CH(Me)CO₂Et,
-C(O)CH(Me)CH(Me)CO₂iPr,
-C(O)CH(Me)CH(Me)CO₂tBu,
-C(O)CH(Me)C(Me)₂CO₂H,
-C(O)CH(Me)C(Me)₂CO₂Me,
-C(O)CH(Me)C(Me)₂CO₂Et,
-C(O)CH(Me)C(Me)₂CO₂iPr,
-C(O)CH(Me)C(Me)₂CO₂tBu,
-C(O)CH(Me)CH(Et)CO₂H,
-C(O)CH(Me)CH(Et)CO₂Me,
-C(O)CH(Me)CH(Et)CO₂Et,
-C(O)CH(Me)CH(Et)CO₂iPr,
-C(O)CH(Me)CH(Et)CO₂tBu,
-C(O)C(O)OH,
-C(O)C(O)NH₂,
-C(O)C(O)NHMe,
-C(O)C(O)NMe₂,

-244-

- 5
- 10
- 15
- 20
- 25
- 30
- C(O)NH₂,
 - C(O)NMe₂,
 - C(O)NH-CH₂-C(O)OH,
 - C(O)NH-CH₂-C(O)OMe,
 - C(O)NH-CH₂-C(O)OEt,
 - C(O)NH-CH₂-C(O)OiPr,
 - C(O)NH-CH₂-C(O)OtBu,
 - C(O)NH-CH(Me)-C(O)OH,
 - C(O)NH-CH(Me)-C(O)OMe,
 - C(O)NH-CH(Me)-C(O)OEt,
 - C(O)NH-CH(Me)-C(O)iPr,
 - C(O)NH-CH(Me)-C(O)tBu,
 - C(O)NH-CH(Et)-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OMe,
 - C(O)NH-C(Me)₂-C(O)OEt,
 - C(O)NH-C(Me)₂-C(O)iPr,
 - C(O)NH-C(Me)₂-C(O)tBu,
 - C(O)NH-CMe(Et)-C(O)OH,
 - C(O)NH-CH(F)-C(O)OH,
 - C(O)NH-CH(CF₃)-C(O)OH,
 - C(O)NH-CH(OH)-C(O)OH,
 - C(O)NH-CH(cyclopropyl)-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OH,
 - C(O)NH-CF(Me)-C(O)OH,
 - C(O)NH-C(Me)(CF₃)-C(O)OH,
 - C(O)NH-C(Me)(OH)-C(O)OH,
 - C(O)NH-C(Me)(cyclopropyl)CO₂H
 - C(O)NMe-CH₂-C(O)OH,
 - C(O)NMe-CH₂-C(O)OMe,
 - C(O)NMe-CH₂-C(O)OEt,

-245-

-C(O)NMe-CH₂-C(O)OiPr,
-C(O)NMe-CH₂-C(O)tBu,
-C(O)NMe-CH₂-C(O)OH,
-C(O)NMe-CH(Me)-C(O)OH,
-C(O)NMe-CH(F)-C(O)OH,
-C(O)NMe-CH(CF₃)-C(O)OH,
-C(O)NMe-CH(OH)-C(O)OH,
-C(O)NMe-CH(cyclopropyl)-C(O)OH,
-C(O)NMe-C(Me)₂-C(O)OH,
-C(O)NMe-CF(Me)-C(O)OH,
-C(O)NMe-C(Me)(CF₃)-C(O)OH,
-C(O)NMe-C(Me)(OH)-C(O)OH,
-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
-C(O)NHS(O)Me,
-C(O)NH₂SO₂Me,
-C(O)-NH-5-tetrazolyl,
-C(O)NHS(O)Me,
-C(O)NHS(O)Et,
-C(O)NH₂SO₂Me,
-C(O)NH₂SO₂Et,
-C(O)NHS(O)iPr,
-C(O)NH₂SO₂iPr,
-C(O)NHS(O)tBu,
-C(O)NH₂SO₂tBu,
-C(O)NHCH₂S(O)Me,
-C(O)NHCH₂S(O)Et,
-C(O)NHCH₂SO₂Me,
-C(O)NHCH₂SO₂Et,
-C(O)NHCH₂CH₂S(O)Me,
-C(O)NHCH₂CH₂S(O)Et,
-C(O)NHCH₂CH₂SO₂Me,
-C(O)NHCH₂CH₂SO₂Et,

-246-

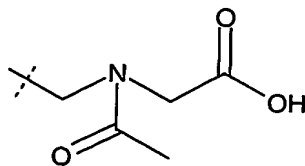
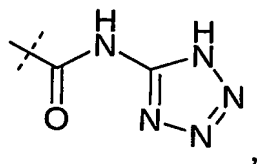
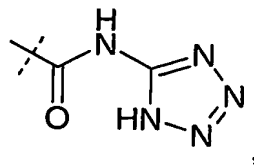
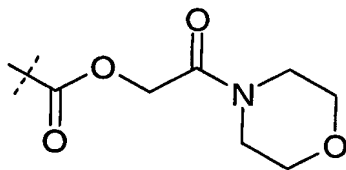
- 5
- 10
- 15
- 20
- 25
- 30
- C(O)N(Me)S(O)Me,
 - C(O)N(Me)SO₂Me,
 - C(O)-N(Me)-5-tetrazolyl,
 - C(O)N(Me)S(O)Me,
 - C(O)N(Me)S(O)Et,
 - C(O)N(Me)SO₂Me,
 - C(O)N(Me)SO₂Et,
 - C(O)N(Me)S(O)iPr,
 - C(O)N(Me))SO₂iPr,
 - C(O)N(Me))S(O)tBu,
 - C(O)N(Me)SO₂tBu,
 - C(O)N(Me)CH₂S(O)Me,
 - C(O)N(Me)CH₂S(O)Et,
 - C(O)N(Me)CH₂SO₂Me,
 - C(O)N(Me)CH₂SO₂Et,
 - C(O)N(Me)CH₂CH₂S(O)Me,
 - C(O)N(Me)CH₂CH₂S(O)Et,
 - C(O)N(Me)CH₂CH₂SO₂Me,
 - C(O)N(Me)CH₂CH₂SO₂Et,
 - CH₂CO₂H,
 - CH₂-5-tetrazolyl,
 - CH₂CO₂Me,
 - CH₂CO₂Et,
 - CH₂NHS(O)Me,
 - CH₂NHS(O)Et,
 - CH₂NHSO₂Me,
 - CH₂NHSO₂Et,
 - CH₂NHS(O)iPr,
 - CH₂NHSO₂iPr,
 - CH₂NHS(O)tBu,
 - CH₂NHSO₂tBu,
 - CH₂NHCH₂CH₂SO₂CH₃,

-247-

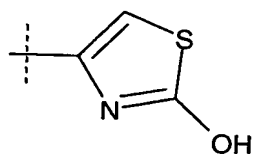
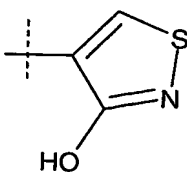
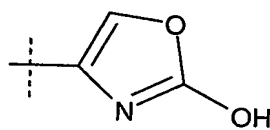
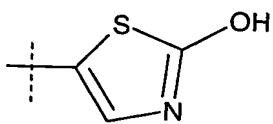
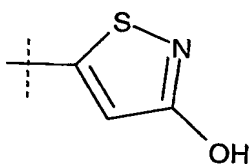
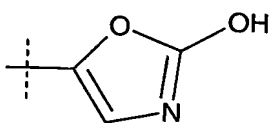
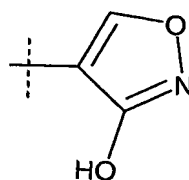
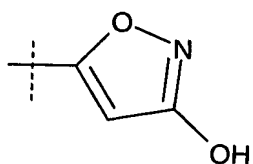
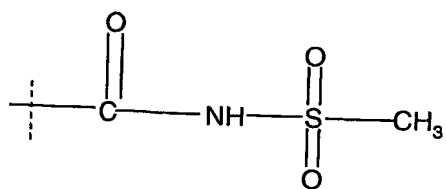
- 5
- CH₂NH(CH₂CO₂H),
 - CH₂N(C(O)Me)(CH₂CO₂H),
 - CH₂-N-pyrrolidin-2-one,
 - CH₂-(1-methylpyrrolidin-2-one-3-yl),
 - CH₂S(O)Me,
 - CH₂S(O)Et,
 - CH₂S(O)₂Me,
 - CH₂S(O)₂Et,
 - 10 -CH₂S(O)iPr,
 - CH₂S(O)₂iPr,
 - CH₂S(O)tBu,
 - CH₂S(O)₂tBu,
 - CH₂CO₂H, CH₂C(O)NH₂,
 - CH₂C(O)NMe₂,
 - 15 -CH₂C(O)NHMe,
 - CH₂C(O)-N-pyrrolidine,
 - CH₂S(O)₂Me, CH₂S(O)Me,
 - CH(OH)CO₂H,
 - CH(OH)C(O)NH₂,
 - 20 -CH(OH)C(O)NHMe,
 - CH(OH)C(O)NMe₂,
 - CH(OH)C(O)NEt₂,
 - CH₂CH₂CO₂H,
 - CH₂CH₂CO₂Me,
 - 25 -CH₂CH₂CO₂Et,
 - CH₂CH₂C(O)NH₂,
 - CH₂CH₂C(O)NHMe,
 - CH₂CH₂C(O)NMe₂,
 - CH₂CH₂-5-tetrazolyl,
 - 30 -CH₂CH₂S(O)₂Me,
 - CH₂CH₂S(O)Me,
 - CH₂CH₂S(O)₂Et,

-248-

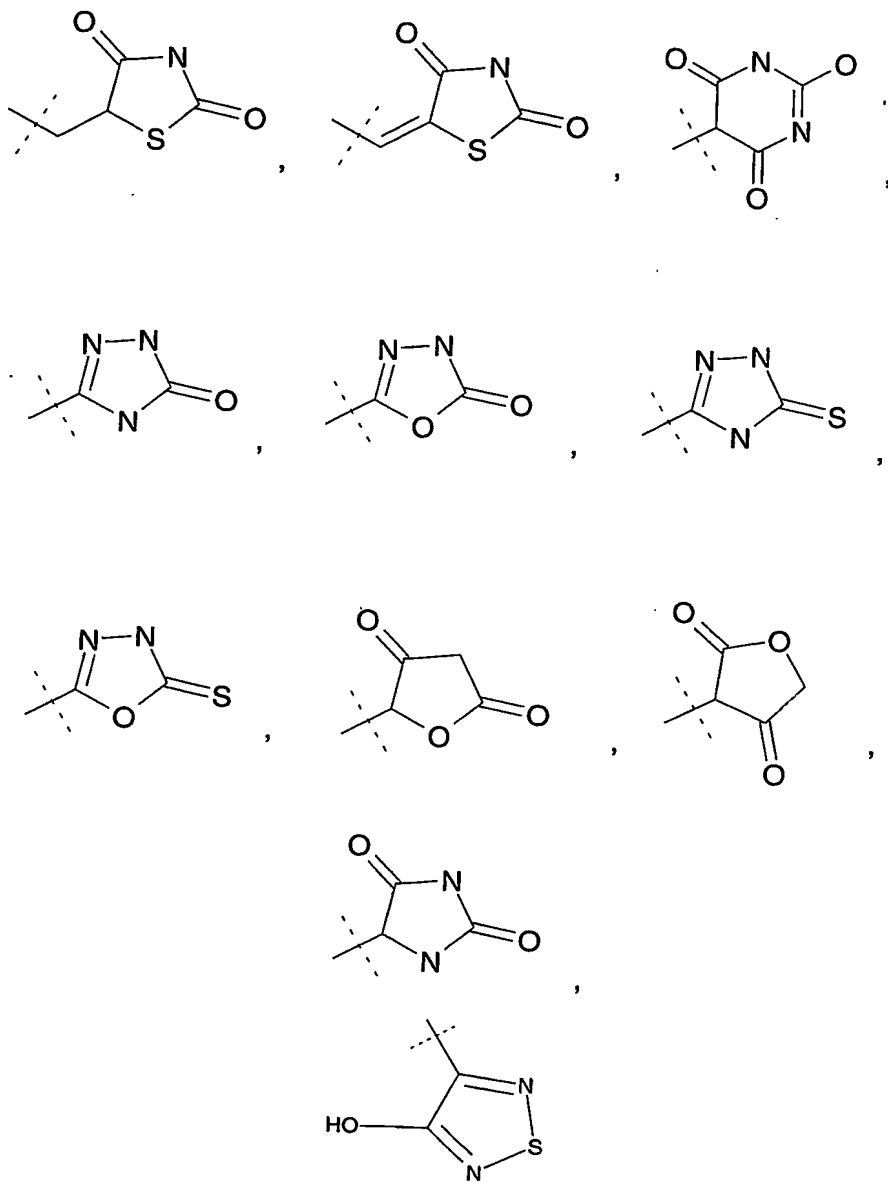
-CH₂CH₂S(O) Et,
-CH₂CH₂S(O)iPr,
-CH₂CH₂S(O)₂iPr,
-CH₂CH₂S(O)tBu,
-CH₂CH₂S(O)₂tBu,
-CH₂CH₂S(O)NH₂,
-CH₂CH₂S(O)NHMe,
-CH₂CH₂S(O)NMe₂,
-CH₂CH₂S(O)₂NH₂,
-CH₂CH₂S(O)₂NHMe
-CH₂CH₂S(O)₂NMe₂,
-CH₂CH₂CH₂S(O)Me,
-CH₂CH₂CH₂S(O)Et,
-CH₂CH₂CH₂S(O)₂Me,
-CH₂CH₂CH₂S(O)₂Et,
-C(O)OH,
-5-tetrazolyl,



-249-

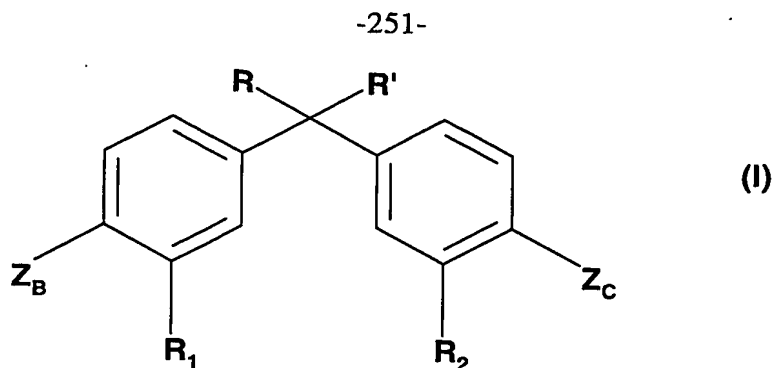


-250-



-1,3,4-oxadiazolin-2-one-5-yl,
-imidazolidine-2,4-dione-5-yl,
-isoxazol-3-ol-yl, or
-1,3,4-oxadiazolin-2-thione-5-yl.

2. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound represented by formula I or a pharmaceutically acceptable salt or a prodrug derivative thereof:

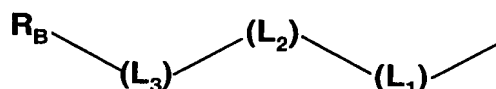


wherein;

R and R' are independently methyl, ethyl, propyl, or 1-methylethyl;

R₁ and R₂ are independently selected from the group consisting of hydrogen,
 5 fluoro, -Cl, -CF₃, -CH₂F, -CHF₂, methoxy, ethoxy, vinyl, methyl, ethyl, propyl, 1-
 methylethyl, 1,1-dimethylethyl, butyl, 1-methylpropyl, 2-methylpropyl, or cyclopropyl;

Z_B is a branched alkyl terminated group represented by the formula:



10

R_B is 1-methylethyl; 1-methylpropyl; 2-methylpropyl; 1,1-dimethylethyl; 1,1-
 dimethylpropyl; 1,2-dimethylpropyl; 2,2-dimethylpropyl;

3-methyl-3-hydroxy-4,4-dimethylpentyl; 3-methyl-3-hydroxy-4,4-dimethylpentenyl;

3-methyl-3-hydroxy-4,4-dimethylpentyl; 3-ethyl-3-hydroxy-4,4-dimethylpentynyl;

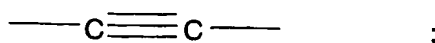
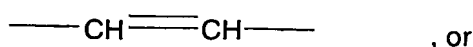
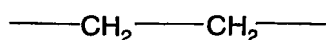
15 3-ethyl-3-hydroxy-4,4-dimethylpentenyl; or 3-ethyl-3-hydroxy-4,4-dimethylpentynyl;

(L₁) and (L₂) and (L₃) are independently divalent linking groups where

L₁ is -O-, -CH₂-, C(O)-, -CHOH-, -CH(Me)-, or -C(Me)OH- ;

L₂ is -CH₂-, -C(O)-, -CHOH-, -CH(Me)-, or -C(Me)OH- ; or

L₁ and L₂ taken together is the group



20

-252-

L_3 is a bond, $-\text{CH}_2-$, $-\text{CHOH}-$, $-\text{CH}(\text{Me})-$, $-\text{C}(\text{O})-$, or $-\text{C}(\text{Me})\text{OH}-$;

Z_C is a group selected from

- 5 $-\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})\text{Me},$
- $-\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})\text{Et},$
- $-\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_2\text{Me},$
- $-\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_2\text{Et},$
- $-\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{S}(\text{O})\text{Me},$
- 10 $-\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{S}(\text{O})\text{Et},$
- $-\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{S}(\text{O})_2\text{Me},$
- $-\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{S}(\text{O})_2\text{Et},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}_2\text{CO}_2\text{H},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}_2\text{CO}_2\text{Me},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}_2\text{CO}_2\text{Et},$
- 15 $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}_2\text{CO}_2\text{iPr},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}_2\text{CO}_2\text{tBu},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Me})\text{CO}_2\text{H},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Me})\text{CO}_2\text{Me},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Me})\text{CO}_2\text{Et},$
- 20 $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Me})\text{CO}_2\text{iPr},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Me})\text{CO}_2\text{tBu},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{C}(\text{Me})_2\text{CO}_2\text{H},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{C}(\text{Me})_2\text{CO}_2\text{Me},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{C}(\text{Me})_2\text{CO}_2\text{Et},$
- 25 $-\text{C}(\text{O})\text{CH}(\text{Me})\text{C}(\text{Me})_2\text{CO}_2\text{iPr},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{C}(\text{Me})_2\text{CO}_2\text{tBu},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Et})\text{CO}_2\text{H},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Et})\text{CO}_2\text{Me},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Et})\text{CO}_2\text{Et},$
- 30 $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Et})\text{CO}_2\text{iPr},$
- $-\text{C}(\text{O})\text{CH}(\text{Me})\text{CH}(\text{Et})\text{CO}_2\text{tBu},$
- $-\text{C}(\text{O})\text{C}(\text{O})\text{OH},$

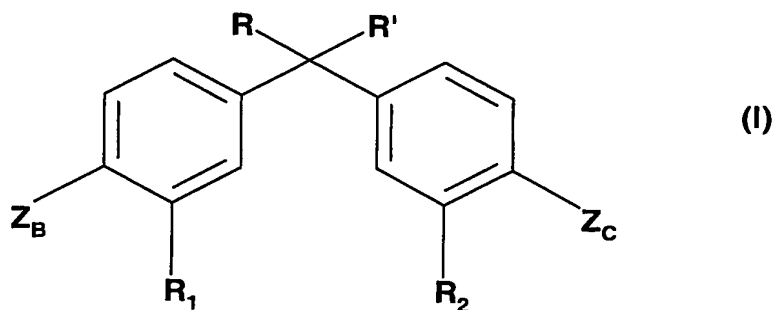
-253-

-C(O)C(O)NH₂,
-C(O)C(O)NHMe,
-C(O)C(O)NMe₂,
-C(O)NH₂,
-C(O)NMe₂,
-C(O)NH-CH₂-C(O)OH,
-C(O)NH-CH₂-C(O)OMe,
-C(O)NH-CH₂-C(O)OEt,
-C(O)NH-CH₂-C(O)OiPr,
-C(O)NH-CH₂-C(O)OtBu,
-C(O)NH-CH(Me)-C(O)OH,
-C(O)NH-CH(Me)-C(O)OMe,
-C(O)NH-CH(Me)-C(O)OEt,
-C(O)NH-CH(Me)-C(O)iPr,
-C(O)NH-CH(Me)-C(O)tBu,
-C(O)NH-CH(Et)-C(O)OH,
-C(O)NH-C(Me)₂-C(O)OH,
-C(O)NH-C(Me)₂-C(O)OMe,
-C(O)NH-C(Me)₂-C(O)OEt,
-C(O)NH-C(Me)₂-C(O)iPr,
-C(O)NH-C(Me)₂-C(O)tBu,
-C(O)NH-CMe(Et)-C(O)OH,
-C(O)NH-CH(F)-C(O)OH,
-C(O)NH-CH(CF₃)-C(O)OH,
-C(O)NH-CH(OH)-C(O)OH,
-C(O)NH-CH(cyclopropyl)-C(O)OH,
-C(O)NH-C(Me)₂-C(O)OH,
-C(O)NH-C(Me)₂-C(O)OH,
-C(O)NH-CF(Me)-C(O)OH,
-C(O)NH-C(Me)(CF₃)-C(O)OH,
-C(O)NH-C(Me)(OH)-C(O)OH,
-C(O)NH-C(Me)(cyclopropyl)CO₂H,

-254-

-C(O)NMe-CH₂-C(O)OH,
 -C(O)NMe-CH₂-C(O)OMe,
 -C(O)NMe-CH₂-C(O)OEt,
 -C(O)NMe-CH₂-C(O)OiPr,
 -C(O)NMe-CH₂-C(O)tBu,
 -C(O)NMe-CH(Me)-C(O)OH,
 -C(O)NMe-CH(F)-C(O)OH,
 -C(O)NMe-CH(CF₃)-C(O)OH,
 -C(O)NMe-CH(OH)-C(O)OH,
 -C(O)NMe-CH(cyclopropyl)-C(O)OH,
 -C(O)NMe-C(Me)₂-C(O)OH,
 -C(O)NMe-CF(Me)-C(O)OH,
 -C(O)NMe-C(Me)(CF₃)-C(O)OH,
 -C(O)NMe-C(Me)(OH)-C(O)OH,
 -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH, or
 -C(O)-N(Me)-5-tetrazolyl.

3. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound represented by formula I or a pharmaceutically acceptable salt or a prodrug derivative thereof:



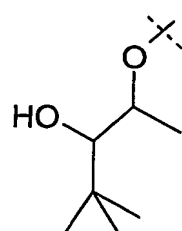
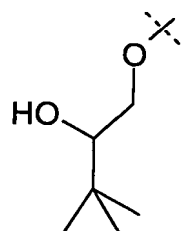
wherein;

R and R' are independently methyl or ethyl;

R₁ and R₂ are independently selected from the group consisting of hydrogen, fluoro, -Cl, -CF₃, -CH₂F, -CHF₂, methoxy, ethoxy, vinyl, methyl, or cyclopropyl;

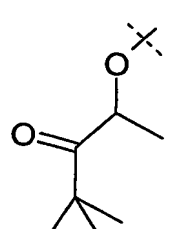
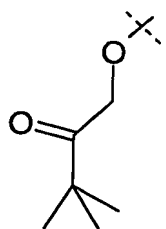
Z_B is a branched alkyl terminated selected from the formulae:

-255-

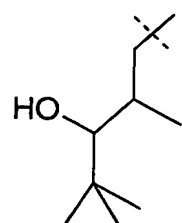
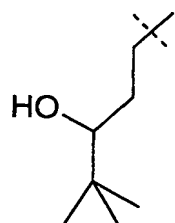


,

,

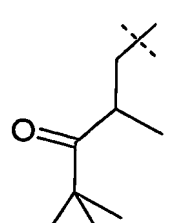
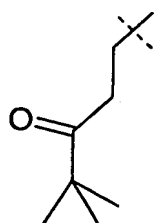


,



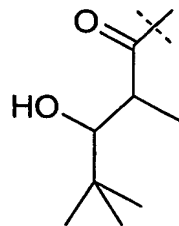
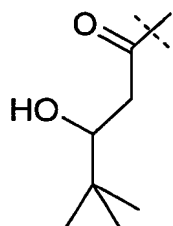
,

,



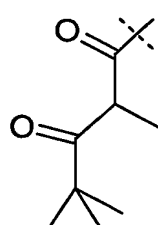
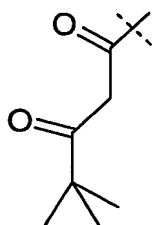
;

-256-

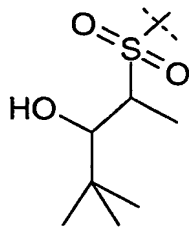
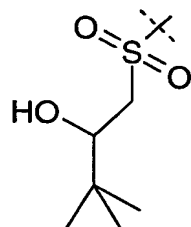


,

,

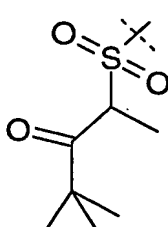
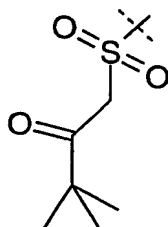


,



,

,



, or

;

Z_C is selected from

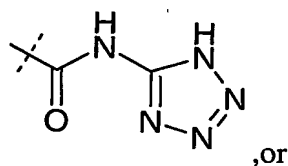
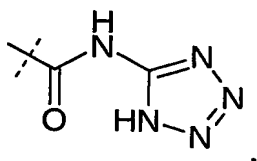
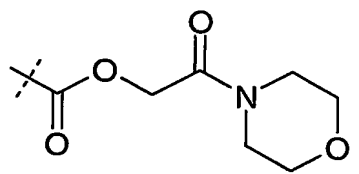
- C(O)NH₂,
- C(O)NMe₂,

-257-

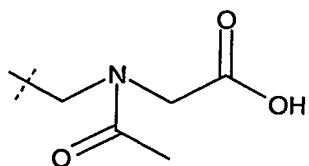
- 5
- 10
- 15
- 20
- 25
- 30
- C(O)NH-CH₂-C(O)OH,
 - C(O)NH-CH₂-C(O)OMe,
 - C(O)NH-CH₂-C(O)OEt,
 - C(O)NH-CH₂-C(O)OiPr,
 - C(O)NH-CH₂-C(O)OtBu,
 - C(O)NH-CH(Me)-C(O)OH,
 - C(O)NH-CH(Me)-C(O)OMe,
 - C(O)NH-CH(Me)-C(O)OEt,
 - C(O)NH-CH(Me)-C(O)iPr,
 - C(O)NH-CH(Me)-C(O)tBu,
 - C(O)NH-CH(Et)-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OMe,
 - C(O)NH-C(Me)₂-C(O)OEt,
 - C(O)NH-C(Me)₂-C(O)iPr,
 - C(O)NH-C(Me)₂-C(O)tBu,
 - C(O)NH-CMe(Et)-C(O)OH,
 - C(O)NH-CH(F)-C(O)OH,
 - C(O)NH-CH(CF₃)-C(O)OH,
 - C(O)NH-CH(OH)-C(O)OH,
 - C(O)NH-CH(cyclopropyl)-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OH,
 - C(O)NH-C(Me)₂-C(O)OH,
 - C(O)NH-CF(Me)-C(O)OH,
 - C(O)NH-C(Me)(CF₃)-C(O)OH,
 - C(O)NH-C(Me)(OH)-C(O)OH,
 - C(O)NH-C(Me)(cyclopropyl)CO₂H,
 - C(O)NMe-CH₂-C(O)OH,
 - C(O)NMe-CH₂-C(O)OMe,
 - C(O)NMe-CH₂-C(O)OEt,
 - C(O)NMe-CH₂-C(O)OiPr,
 - C(O)NMe-CH₂-C(O)tBu,

-258-

-C(O)NMe-CH(Me)-C(O)OH,
 -C(O)NMe-CH(F)-C(O)OH,
 -C(O)NMe-CH(CF₃)-C(O)OH,
 -C(O)NMe-CH(OH)-C(O)OH,
 -C(O)NMe-CH(cyclopropyl)-C(O)OH,
 -C(O)NMe-C(Me)₂-C(O)OH,
 -C(O)NMe-CF(Me)-C(O)OH,
 -C(O)NMe-C(Me)(CF₃)-C(O)OH,
 -C(O)NMe-C(Me)(OH)-C(O)OH,
 -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
 -C(O)-N(Me)-5-tetrazolyl,

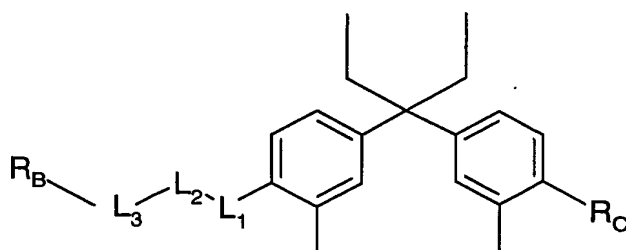


,or



4. A method of treating a mammal to prevent or alleviate the effect of Mustard by
 administering a pharmaceutically effective amount of a compound or pharmaceutically
 acceptable salt thereof represented by the formula:

-259-



wherein;

said compound is selected from a compound code numbered 1 thru 468, with each compound having the specific selection of substituents R_B , R_C , L_1 , L_2 , and L_3 shown

5 in the horizontal line following the compound code number, as set out in the following Table 1 :

Table 1

No.	R_B	L_3	L_2	L_1	R_C
1	tBu	C(O)	CH ₂	O	CO ₂ Me
2	tBu	CHOH	CH ₂	O	CO ₂ Me
3	tBu	C(Me)OH	CH ₂	O	CO ₂ Me
4	tBu	C(O)	CH(Me)	O	CO ₂ Me
5	tBu	CHOH	CH(Me)	O	CO ₂ Me
6	tBu	C(Me)OH	CH(Me)	O	CO ₂ Me
7	tBu	C(O)	CH ₂	O	CO ₂ H
8	tBu	CHOH	CH ₂	O	CO ₂ H
9	tBu	C(Me)OH	CH ₂	O	CO ₂ H
10	tBu	C(O)	CH(Me)	O	CO ₂ H
11	tBu	CHOH	CH(Me)	O	CO ₂ H
12	tBu	C(Me)OH	CH(Me)	O	CO ₂ H
13	tBu	C(O)	CH ₂	O	C(O)NH ₂
14	tBu	CHOH	CH ₂	O	C(O)NH ₂
15	tBu	C(Me)OH	CH ₂	O	C(O)NH ₂
16	tBu	C(O)	CH(Me)	O	C(O)NH ₂
17	tBu	CHOH	CH(Me)	O	C(O)NH ₂
18	tBu	C(Me)OH	CH(Me)	O	C(O)NH ₂
19	tBu	C(O)	CH ₂	O	C(O)NMe ₂

-260-

20	tBu	CHOH	CH ₂	O	C(O)NMe ₂
21	tBu	C(Me)OH	CH ₂	O	C(O)NMe ₂
22	tBu	C(O)	CH(Me)	O	C(O)NMe ₂
23	tBu	CHOH	CH(Me)	O	C(O)NMe ₂
24	tBu	C(Me)OH	CH(Me)	O	C(O)NMe ₂
25	tBu	C(O)	CH ₂	O	5-tetrazolyl
26	tBu	CHOH	CH ₂	O	5-tetrazolyl
27	tBu	C(Me)OH	CH ₂	O	5-tetrazolyl
28	tBu	C(O)	CH(Me)	O	5-tetrazolyl
29	tBu	CHOH	CH(Me)	O	5-tetrazolyl
30	tBu	C(Me)OH	CH(Me)	O	5-tetrazolyl
31	tBu	C(O)	CH ₂	O	C(O)-NH-5-tetrazolyl
32	tBu	CHOH	CH ₂	O	C(O)-NH-5-tetrazolyl
33	tBu	C(Me)OH	CH ₂	O	C(O)-NH-5-tetrazolyl
34	tBu	C(O)	CH(Me)	O	C(O)-NH-5-tetrazolyl
35	tBu	CHOH	CH(Me)	O	C(O)-NH-5-tetrazolyl
36	tBu	C(Me)OH	CH(Me)	O	C(O)-NH-5-tetrazolyl
37	tBu	C(O)	CH ₂	O	C(O)NHCH ₂ SO ₂ Me
38	tBu	CHOH	CH ₂	O	C(O)NHCH ₂ SO ₂ Me
39	tBu	C(Me)OH	CH ₂	O	C(O)NHCH ₂ SO ₂ Me
40	tBu	C(O)	CH(Me)	O	C(O)NHCH ₂ SO ₂ Me
41	tBu	CHOH	CH(Me)	O	C(O)NHCH ₂ SO ₂ Me
42	tBu	C(Me)OH	CH(Me)	O	C(O)NHCH ₂ SO ₂ Me
43	tBu	C(O)	CH ₂	O	C(O)NHCH ₂ S(O)Me
44	tBu	CHOH	CH ₂	O	C(O)NHCH ₂ S(O)Me
45	tBu	C(Me)OH	CH ₂	O	C(O)NHCH ₂ S(O)Me
46	tBu	C(O)	CH(Me)	O	C(O)NHCH ₂ S(O)Me
47	tBu	CHOH	CH(Me)	O	C(O)NHCH ₂ S(O)Me
48	tBu	C(Me)OH	CH(Me)	O	C(O)NHCH ₂ S(O)Me
49	tBu	C(O)	CH ₂	O	C(O)NHCH ₂ CH ₂ SO ₂ Me
50	tBu	CHOH	CH ₂	O	C(O)NHCH ₂ CH ₂ SO ₂ Me

-261-

51	tBu	C(Me)OH	CH ₂	O	C(O)NHCH ₂ CH ₂ SO ₂ Me
52	tBu	C(O)	CH(Me)	O	C(O)NHCH ₂ CH ₂ SO ₂ Me
53	tBu	CHOH	CH(Me)	O	C(O)NHCH ₂ CH ₂ SO ₂ Me
54	tBu	C(Me)OH	CH(Me)	O	C(O)NHCH ₂ CH ₂ SO ₂ Me
55	tBu	C(O)	CH ₂	O	C(O)NHCH ₂ CH ₂ S(O)Me
56	tBu	CHOH	CH ₂	O	C(O)NHCH ₂ CH ₂ S(O)Me
57	tBu	C(Me)OH	CH ₂	O	C(O)NHCH ₂ CH ₂ S(O)Me
58	tBu	C(O)	CH(Me)	O	C(O)NHCH ₂ CH ₂ S(O)Me
59	tBu	CHOH	CH(Me)	O	C(O)NHCH ₂ CH ₂ S(O)Me
60	tBu	C(Me)OH	CH(Me)	O	C(O)NHCH ₂ CH ₂ S(O)Me
61	tBu	C(O)	CH ₂	O	C(O)NHSO ₂ Me
62	tBu	CHOH	CH ₂	O	C(O)NHSO ₂ Me
63	tBu	C(Me)OH	CH ₂	O	C(O)NHSO ₂ Me
64	tBu	C(O)	CH(Me)	O	C(O)NHSO ₂ Me
65	tBu	CHOH	CH(Me)	O	C(O)NHSO ₂ Me
66	tBu	C(Me)OH	CH(Me)	O	C(O)NHSO ₂ Me
67	tBu	C(O)	CH ₂	O	C(O)NHS(O)Me
68	tBu	CHOH	CH ₂	O	C(O)NHS(O)Me
69	tBu	C(Me)OH	CH ₂	O	C(O)NHS(O)Me
70	tBu	C(O)	CH(Me)	O	C(O)NHS(O)Me
71	tBu	CHOH	CH(Me)	O	C(O)NHS(O)Me
72	tBu	C(Me)OH	CH(Me)	O	C(O)NHS(O)Me
73	tBu	C(O)	CH ₂	O	C(O)NHSO ₂ Et
74	tBu	CHOH	CH ₂	O	C(O)NHSO ₂ Et
75	tBu	C(Me)OH	CH ₂	O	C(O)NHSO ₂ Et
76	tBu	C(O)	CH(Me)	O	C(O)NHSO ₂ Et
77	tBu	CHOH	CH(Me)	O	C(O)NHSO ₂ Et
78	tBu	C(Me)OH	CH(Me)	O	C(O)NHSO ₂ Et
79	tBu	C(O)	CH ₂	O	C(O)NHS(O)Et
80	tBu	CHOH	CH ₂	O	C(O)NHS(O)Et
81	tBu	C(Me)OH	CH ₂	O	C(O)NHS(O)Et

-262-

82	tBu	C(O)	CH(Me)	O	C(O)NHS(O)Et
83	tBu	CHOH	CH(Me)	O	C(O)NHS(O)Et
84	tBu	C(Me)OH	CH(Me)	O	C(O)NHS(O)Et
85	tBu	C(O)	CH ₂	O	C(O)NHSO ₂ iPr
86	tBu	CHOH	CH ₂	O	C(O)NHSO ₂ iPr
87	tBu	C(Me)OH	CH ₂	O	C(O)NHSO ₂ iPr
88	tBu	C(O)	CH(Me)	O	C(O)NHSO ₂ iPr
89	tBu	CHOH	CH(Me)	O	C(O)NHSO ₂ iPr
90	tBu	C(Me)OH	CH(Me)	O	C(O)NHSO ₂ iPr
91	tBu	C(O)	CH ₂	O	C(O)NHS(O)iPr
92	tBu	CHOH	CH ₂	O	C(O)NHS(O)iPr
93	tBu	C(Me)OH	CH ₂	O	C(O)NHS(O)iPr
94	tBu	C(O)	CH(Me)	O	C(O)NHS(O)iPr
95	tBu	CHOH	CH(Me)	O	C(O)NHS(O)iPr
96	tBu	C(Me)OH	CH(Me)	O	C(O)NHS(O)iPr
97	tBu	C(O)	CH ₂	O	C(O)NHSO ₂ tBu
98	tBu	CHOH	CH ₂	O	C(O)NHSO ₂ tBu
99	tBu	C(Me)OH	CH ₂	O	C(O)NHSO ₂ tBu
100	tBu	C(O)	CH(Me)	O	C(O)NHSO ₂ tBu
101	tBu	CHOH	CH(Me)	O	C(O)NHSO ₂ tBu
102	tBu	C(Me)OH	CH(Me)	O	C(O)NHSO ₂ tBu
103	tBu	C(O)	CH ₂	O	C(O)NHS(O)tBu
104	tBu	CHOH	CH ₂	O	C(O)NHS(O)tBu
105	tBu	C(Me)OH	CH ₂	O	C(O)NHS(O)tBu
106	tBu	C(O)	CH(Me)	O	C(O)NHS(O)tBu
107	tBu	CHOH	CH(Me)	O	C(O)NHS(O)tBu
108	tBu	C(Me)OH	CH(Me)	O	C(O)NHS(O)tBu
109	tBu	C(O)	CH ₂	O	CH ₂ NHSO ₂ Me
110	tBu	CHOH	CH ₂	O	CH ₂ NHSO ₂ Me
111	tBu	C(Me)OH	CH ₂	O	CH ₂ NHSO ₂ Me
112	tBu	C(O)	CH(Me)	O	CH ₂ NHSO ₂ Me

-263-

113	tBu	CHOH	CH(Me)	O	CH ₂ NHSO ₂ Me
114	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHSO ₂ Me
115	tBu	C(O)	CH ₂	O	CH ₂ NHS(O)Me
116	tBu	CHOH	CH ₂	O	CH ₂ NHS(O)Me
117	tBu	C(Me)OH	CH ₂	O	CH ₂ NHS(O)Me
118	tBu	C(O)	CH(Me)	O	CH ₂ NHS(O)Me
119	tBu	CHOH	CH(Me)	O	CH ₂ NHS(O)Me
120	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHS(O)Me
121	tBu	C(O)	CH ₂	O	CH ₂ NHSO ₂ Et
122	tBu	CHOH	CH ₂	O	CH ₂ NHSO ₂ Et
123	tBu	C(Me)OH	CH ₂	O	CH ₂ NHSO ₂ Et
124	tBu	C(O)	CH(Me)	O	CH ₂ NHSO ₂ Et
125	tBu	CHOH	CH(Me)	O	CH ₂ NHSO ₂ Et
126	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHSO ₂ Et
127	tBu	C(O)	CH ₂	O	CH ₂ NHS(O)Et
128	tBu	CHOH	CH ₂	O	CH ₂ NHS(O)Et
129	tBu	C(Me)OH	CH ₂	O	CH ₂ NHS(O)Et
130	tBu	C(O)	CH(Me)	O	CH ₂ NHS(O)Et
131	tBu	CHOH	CH(Me)	O	CH ₂ NHS(O)Et
132	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHS(O)Et
133	tBu	C(O)	CH ₂	O	CH ₂ NHSO ₂ iPr
134	tBu	CHOH	CH ₂	O	CH ₂ NHSO ₂ iPr
135	tBu	C(Me)OH	CH ₂	O	CH ₂ NHSO ₂ iPr
136	tBu	C(O)	CH(Me)	O	CH ₂ NHSO ₂ iPr
137	tBu	CHOH	CH(Me)	O	CH ₂ NHSO ₂ iPr
138	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHSO ₂ iPr
139	tBu	C(O)	CH ₂	O	CH ₂ NHS(O)iPr
140	tBu	CHOH	CH ₂	O	CH ₂ NHS(O)iPr
141	tBu	C(Me)OH	CH ₂	O	CH ₂ NHS(O)iPr
142	tBu	C(O)	CH(Me)	O	CH ₂ NHS(O)iPr
143	tBu	CHOH	CH(Me)	O	CH ₂ NHS(O)iPr

-264-

144	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHS(O)iPr
145	tBu	C(O)	CH ₂	O	CH ₂ NHSO ₂ tBu
146	tBu	CHOH	CH ₂	O	CH ₂ NHSO ₂ tBu
147	tBu	C(Me)OH	CH ₂	O	CH ₂ NHSO ₂ tBu
148	tBu	C(O)	CH(Me)	O	CH ₂ NHSO ₂ tBu
149	tBu	CHOH	CH(Me)	O	CH ₂ NHSO ₂ tBu
150	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHSO ₂ tBu
151	tBu	C(O)	CH ₂	O	CH ₂ NHS(O)tBu
152	tBu	CHOH	CH ₂	O	CH ₂ NHS(O)tBu
153	tBu	C(Me)OH	CH ₂	O	CH ₂ NHS(O)tBu
154	tBu	C(O)	CH(Me)	O	CH ₂ NHS(O)tBu
155	tBu	CHOH	CH(Me)	O	CH ₂ NHS(O)tBu
156	tBu	C(Me)OH	CH(Me)	O	CH ₂ NHS(O)tBu
157	tBu	C(O)	CH ₂	O	CH ₂ -N-pyrrolidin-2-one
158	tBu	CHOH	CH ₂	O	CH ₂ -N-pyrrolidin-2-one
159	tBu	C(Me)OH	CH ₂	O	CH ₂ -N-pyrrolidin-2-one
160	tBu	C(O)	CH(Me)	O	CH ₂ -N-pyrrolidin-2-one
161	tBu	CHOH	CH(Me)	O	CH ₂ -N-pyrrolidin-2-one
162	tBu	C(Me)OH	CH(Me)	O	CH ₂ -N-pyrrolidin-2-one
163	tBu	C(O)	CH ₂	O	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
164	tBu	CHOH	CH ₂	O	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
165	tBu	C(Me)OH	CH ₂	O	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
166	tBu	C(O)	CH(Me)	O	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
167	tBu	CHOH	CH(Me)	O	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
168	tBu	C(Me)OH	CH(Me)	O	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)

-265-

169	tBu	C(O)	CH ₂	O	CH ₂ CO ₂ Me
170	tBu	CHOH	CH ₂	O	CH ₂ CO ₂ Me
171	tBu	C(Me)OH	CH ₂	O	CH ₂ CO ₂ Me
172	tBu	C(O)	CH(Me)	O	CH ₂ CO ₂ Me
173	tBu	CHOH	CH(Me)	O	CH ₂ CO ₂ Me
174	tBu	C(Me)OH	CH(Me)	O	CH ₂ CO ₂ Me
175	tBu	C(O)	CH ₂	O	CH ₂ CO ₂ H
176	tBu	CHOH	CH ₂	O	CH ₂ CO ₂ H
177	tBu	C(Me)OH	CH ₂	O	CH ₂ CO ₂ H
178	tBu	C(O)	CH(Me)	O	CH ₂ CO ₂ H
179	tBu	CHOH	CH(Me)	O	CH ₂ CO ₂ H
180	tBu	C(Me)OH	CH(Me)	O	CH ₂ CO ₂ H
181	tBu	C(O)	CH ₂	O	CH ₂ C(O)NH ₂
182	tBu	CHOH	CH ₂	O	CH ₂ C(O)NH ₂
183	tBu	C(Me)OH	CH ₂	O	CH ₂ C(O)NH ₂
184	tBu	C(O)	CH(Me)	O	CH ₂ C(O)NH ₂
185	tBu	CHOH	CH(Me)	O	CH ₂ C(O)NH ₂
186	tBu	C(Me)OH	CH(Me)	O	CH ₂ C(O)NH ₂
187	tBu	C(O)	CH ₂	O	CH ₂ C(O)NMe ₂
188	tBu	CHOH	CH ₂	O	CH ₂ C(O)NMe ₂
189	tBu	C(Me)OH	CH ₂	O	CH ₂ C(O)NMe ₂
190	tBu	C(O)	CH(Me)	O	CH ₂ C(O)NMe ₂
191	tBu	CHOH	CH(Me)	O	CH ₂ C(O)NMe ₂
192	tBu	C(Me)OH	CH(Me)	O	CH ₂ C(O)NMe ₂
193	tBu	C(O)	CH ₂	O	CH ₂ C(O)-N-pyrrolidine
194	tBu	CHOH	CH ₂	O	CH ₂ C(O)-N-pyrrolidine
195	tBu	C(Me)OH	CH ₂	O	CH ₂ C(O)-N-pyrrolidine
196	tBu	C(O)	CH(Me)	O	CH ₂ C(O)-N-pyrrolidine
197	tBu	CHOH	CH(Me)	O	CH ₂ C(O)-N-pyrrolidine
198	tBu	C(Me)OH	CH(Me)	O	CH ₂ C(O)-N-pyrrolidine
199	tBu	C(O)	CH ₂	O	CH ₂ -5-tetrazolyl

-266-

200	tBu	CHOH	CH ₂	O	CH ₂ -5-tetrazolyl
201	tBu	C(Me)OH	CH ₂	O	CH ₂ -5-tetrazolyl
202	tBu	C(O)	CH(Me)	O	CH ₂ -5-tetrazolyl
203	tBu	CHOH	CH(Me)	O	CH ₂ -5-tetrazolyl
204	tBu	C(Me)OH	CH(Me)	O	CH ₂ -5-tetrazolyl
205	tBu	C(O)	CH ₂	O	C(O)C(O)OH
206	tBu	CHOH	CH ₂	O	C(O)C(O)OH
207	tBu	C(Me)OH	CH ₂	O	C(O)C(O)OH
208	tBu	C(O)	CH(Me)	O	C(O)C(O)OH
209	tBu	CHOH	CH(Me)	O	C(O)C(O)OH
210	tBu	C(Me)OH	CH(Me)	O	C(O)C(O)OH
211	tBu	C(O)	CH ₂	O	CH(OH)C(O)OH
212	tBu	CHOH	CH ₂	O	CH(OH)C(O)OH
213	tBu	C(Me)OH	CH ₂	O	CH(OH)C(O)OH
214	tBu	C(O)	CH(Me)	O	CH(OH)C(O)OH
215	tBu	CHOH	CH(Me)	O	CH(OH)C(O)OH
216	tBu	C(Me)OH	CH(Me)	O	CH(OH)C(O)OH
217	tBu	C(O)	CH ₂	O	C(O)C(O)NH ₂
218	tBu	CHOH	CH ₂	O	C(O)C(O)NH ₂
219	tBu	C(Me)OH	CH ₂	O	C(O)C(O)NH ₂
220	tBu	C(O)	CH(Me)	O	C(O)C(O)NH ₂
221	tBu	CHOH	CH(Me)	O	C(O)C(O)NH ₂
222	tBu	C(Me)OH	CH(Me)	O	C(O)C(O)NH ₂
223	tBu	C(O)	CH ₂	O	CH(OH)C(O)NH ₂
224	tBu	CHOH	CH ₂	O	CH(OH)C(O)NH ₂
225	tBu	C(Me)OH	CH ₂	O	CH(OH)C(O)NH ₂
226	tBu	C(O)	CH(Me)	O	CH(OH)C(O)NH ₂
227	tBu	CHOH	CH(Me)	O	CH(OH)C(O)NH ₂
228	tBu	C(Me)OH	CH(Me)	O	CH(OH)C(O)NH ₂
229	tBu	C(O)	CH ₂	O	C(O)C(O)NMe ₂
230	tBu	CHOH	CH ₂	O	C(O)C(O)NMe ₂

-267-

231	tBu	C(Me)OH	CH ₂	O	C(O)C(O)NMe ₂
232	tBu	C(O)	CH(Me)	O	C(O)C(O)NMe ₂
233	tBu	CHOH	CH(Me)	O	C(O)C(O)NMe ₂
234	tBu	C(Me)OH	CH(Me)	O	C(O)C(O)NMe ₂
235	tBu	C(O)	CH ₂	O	CH(OH)C(O)NMe ₂
236	tBu	CHOH	CH ₂	O	CH(OH)C(O)NMe ₂
237	tBu	C(Me)OH	CH ₂	O	CH(OH)C(O)NMe ₂
238	tBu	C(O)	CH(Me)	O	CH(OH)C(O)NMe ₂
239	tBu	CHOH	CH(Me)	O	CH(OH)C(O)NMe ₂
240	tBu	C(Me)OH	CH(Me)	O	CH(OH)C(O)NMe ₂
241	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CO ₂ H
242	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CO ₂ H
243	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CO ₂ H
244	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CO ₂ H
245	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CO ₂ H
246	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CO ₂ H
247	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ C(O)NH ₂
248	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ C(O)NH ₂
249	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ C(O)NH ₂
250	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ C(O)NH ₂
251	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ C(O)NH ₂
252	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ C(O)NH ₂
253	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ C(O)NMe ₂
254	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ C(O)NMe ₂
255	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ C(O)NMe ₂
256	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ C(O)NMe ₂
257	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ C(O)NMe ₂
258	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ C(O)NMe ₂
259	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ -5-tetrazolyl
260	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ -5-tetrazolyl
261	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ -5-tetrazolyl

-268-

262	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ -5-tetrazolyl
263	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ -5-tetrazolyl
264	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ -5-tetrazolyl
265	tBu	C(O)	CH ₂	O	CH ₂ S(O) ₂ Me
266	tBu	CHOH	CH ₂	O	CH ₂ S(O) ₂ Me
267	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O) ₂ Me
268	tBu	C(O)	CH(Me)	O	CH ₂ S(O) ₂ Me
269	tBu	CHOH	CH(Me)	O	CH ₂ S(O) ₂ Me
270	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O) ₂ Me
271	tBu	C(O)	CH ₂	O	CH ₂ S(O)Me
272	tBu	CHOH	CH ₂	O	CH ₂ S(O)Me
273	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O)Me
274	tBu	C(O)	CH(Me)	O	CH ₂ S(O)Me
275	tBu	CHOH	CH(Me)	O	CH ₂ S(O)Me
276	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O)Me
277	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O) ₂ Me
278	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ Me
279	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ Me
280	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ Me
281	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ Me
282	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ Me
283	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)Me
284	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)Me
285	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)Me
286	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)Me
287	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)Me
288	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)Me
289	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
290	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
291	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
292	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O) ₂ Me

-269-

293	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
294	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
295	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)Me
296	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)Me
297	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)Me
298	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)Me
299	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)Me
300	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)Me
301	tBu	C(O)	CH ₂	O	CH ₂ S(O) ₂ Et
302	tBu	CHOH	CH ₂	O	CH ₂ S(O) ₂ Et
303	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O) ₂ Et
304	tBu	C(O)	CH(Me)	O	CH ₂ S(O) ₂ Et
305	tBu	CHOH	CH(Me)	O	CH ₂ S(O) ₂ Et
306	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O) ₂ Et
307	tBu	C(O)	CH ₂	O	CH ₂ S(O)Et
308	tBu	CHOH	CH ₂	O	CH ₂ S(O)Et
309	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O)Et
310	tBu	C(O)	CH(Me)	O	CH ₂ S(O)Et
311	tBu	CHOH	CH(Me)	O	CH ₂ S(O)Et
312	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O)Et
313	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O) ₂ Et
314	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ Et
315	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ Et
316	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ Et
317	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ Et
318	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ Et
319	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)Et
320	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)Et
321	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)Et
322	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)Et
323	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)Et

-270-

324	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)Et
325	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)2Et
326	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)2Et
327	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)2Et
328	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)2Et
329	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)2Et
330	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)2Et
331	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)Et
332	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)Et
333	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)Et
334	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)Et
335	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)Et
336	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)Et
337	tBu	C(O)	CH ₂	O	CH ₂ S(O)2iPr
338	tBu	CHOH	CH ₂	O	CH ₂ S(O)2iPr
339	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O)2iPr
340	tBu	C(O)	CH(Me)	O	CH ₂ S(O)2iPr
341	tBu	CHOH	CH(Me)	O	CH ₂ S(O)2iPr
342	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O)2iPr
343	tBu	C(O)	CH ₂	O	CH ₂ S(O)iPr
344	tBu	CHOH	CH ₂	O	CH ₂ S(O)iPr
345	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O)iPr
346	tBu	C(O)	CH(Me)	O	CH ₂ S(O)iPr
347	tBu	CHOH	CH(Me)	O	CH ₂ S(O)iPr
348	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O)iPr
349	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)2iPr
350	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)2iPr
351	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)2iPr
352	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)2iPr
353	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)2iPr
354	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)2iPr

-271-

355	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)iPr
356	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)iPr
357	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)iPr
358	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)iPr
359	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)iPr
360	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)iPr
361	tBu	C(O)	CH ₂	O	CH ₂ S(O)2tBu
362	tBu	CHOH	CH ₂	O	CH ₂ S(O)2tBu
363	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O)2tBu
364	tBu	C(O)	CH(Me)	O	CH ₂ S(O)2tBu
365	tBu	CHOH	CH(Me)	O	CH ₂ S(O)2tBu
366	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O)2tBu
367	tBu	C(O)	CH ₂	O	CH ₂ S(O)tBu
368	tBu	CHOH	CH ₂	O	CH ₂ S(O)tBu
369	tBu	C(Me)OH	CH ₂	O	CH ₂ S(O)tBu
370	tBu	C(O)	CH(Me)	O	CH ₂ S(O)tBu
371	tBu	CHOH	CH(Me)	O	CH ₂ S(O)tBu
372	tBu	C(Me)OH	CH(Me)	O	CH ₂ S(O)tBu
373	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)2tBu
374	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)2tBu
375	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)2tBu
376	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)2tBu
377	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)2tBu
378	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)2tBu
379	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)tBu
380	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)tBu
381	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)tBu
382	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)tBu
383	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)tBu
384	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)tBu
385	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)2NH ₂

-272-

386	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ NH ₂
387	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ NH ₂
388	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ NH ₂
389	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ NH ₂
390	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ NH ₂
391	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)NH ₂
392	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)NH ₂
393	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)NH ₂
394	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)NH ₂
395	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)NH ₂
396	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)NH ₂
397	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O) ₂ NMe ₂
398	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ NMe ₂
399	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O) ₂ NMe ₂
400	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ NMe ₂
401	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ NMe ₂
402	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O) ₂ NMe ₂
403	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ S(O)NMe ₂
404	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ S(O)NMe ₂
405	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ S(O)NMe ₂
406	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ S(O)NMe ₂
407	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ S(O)NMe ₂
408	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ S(O)NMe ₂
409	tBu	C(O)	CH ₂	O	C(O)CH ₂ S(O) ₂ Me
410	tBu	CHOH	CH ₂	O	C(O)CH ₂ S(O) ₂ Me
411	tBu	C(Me)OH	CH ₂	O	C(O)CH ₂ S(O) ₂ Me
412	tBu	C(O)	CH(Me)	O	C(O)CH ₂ S(O) ₂ Me
413	tBu	CHOH	CH(Me)	O	C(O)CH ₂ S(O) ₂ Me
414	tBu	C(Me)OH	CH(Me)	O	C(O)CH ₂ S(O) ₂ Me
415	tBu	C(O)	CH ₂	O	C(O)CH ₂ S(O)Me
416	tBu	CHOH	CH ₂	O	C(O)CH ₂ S(O)Me

-273-

417	tBu	C(Me)OH	CH ₂	O	C(O)CH ₂ S(O)Me
418	tBu	C(O)	CH(Me)	O	C(O)CH ₂ S(O)Me
419	tBu	CHOH	CH(Me)	O	C(O)CH ₂ S(O)Me
420	tBu	C(Me)OH	CH(Me)	O	C(O)CH ₂ S(O)Me
421	tBu	C(O)	CH ₂	O	C(O)CH ₂ CH ₂ S(O) ₂ Me
422	tBu	CHOH	CH ₂	O	C(O)CH ₂ CH ₂ S(O) ₂ Me
423	tBu	C(Me)OH	CH ₂	O	C(O)CH ₂ CH ₂ S(O) ₂ Me
424	tBu	C(O)	CH(Me)	O	C(O)CH ₂ CH ₂ S(O) ₂ Me
425	tBu	CHOH	CH(Me)	O	C(O)CH ₂ CH ₂ S(O) ₂ Me
426	tBu	C(Me)OH	CH(Me)	O	C(O)CH ₂ CH ₂ S(O) ₂ Me
427	tBu	C(O)	CH ₂	O	C(O)CH ₂ CH ₂ S(O)Me
428	tBu	CHOH	CH ₂	O	C(O)CH ₂ CH ₂ S(O)Me
429	tBu	C(Me)OH	CH ₂	O	C(O)CH ₂ CH ₂ S(O)Me
430	tBu	C(O)	CH(Me)	O	C(O)CH ₂ CH ₂ S(O)Me
431	tBu	CHOH	CH(Me)	O	C(O)CH ₂ CH ₂ S(O)Me
432	tBu	C(Me)OH	CH(Me)	O	C(O)CH ₂ CH ₂ S(O)Me
433	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
434	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
435	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
436	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
437	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
438	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
439	tBu	C(O)	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)NH ₂
440	tBu	CHOH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)NH ₂
441	tBu	C(Me)OH	CH ₂	O	CH ₂ CH ₂ CH ₂ S(O)NH ₂
442	tBu	C(O)	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)NH ₂
443	tBu	CHOH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)NH ₂
444	tBu	C(Me)OH	CH(Me)	O	CH ₂ CH ₂ CH ₂ S(O)NH ₂
445	tBu	C(O)	CH ₂	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
446	tBu	CHOH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
447	tBu	C(Me)OH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-one-5-yl

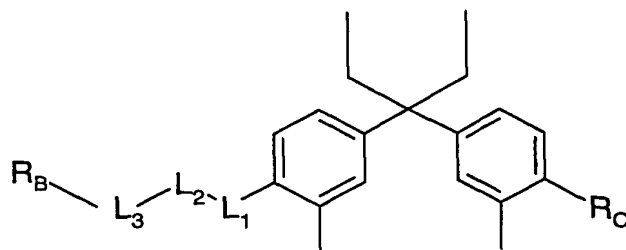
-274-

448	tBu	C(O)	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
449	tBu	CHOH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
450	tBu	C(Me)OH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
451	tBu	C(O)	CH ₂	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
452	tBu	CHOH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
453	tBu	C(Me)OH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
454	tBu	C(O)	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
455	tBu	CHOH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
456	tBu	C(Me)OH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
457	tBu	C(O)	CH ₂	CH ₂	imidazolidine-2,4-dione-5-yl
458	tBu	CHOH	CH ₂	CH ₂	imidazolidine-2,4-dione-5-yl
459	tBu	C(Me)OH	CH ₂	CH ₂	imidazolidine-2,4-dione-5-yl
460	tBu	C(O)	CH(Me)	CH ₂	imidazolidine-2,4-dione-5-yl
461	tBu	CHOH	CH(Me)	CH ₂	imidazolidine-2,4-dione-5-yl
462	tBu	C(Me)OH	CH(Me)	CH ₂	imidazolidine-2,4-dione-5-yl
463	tBu	C(O)	CH ₂	CH ₂	isoxazol-3-ol-5-yl
464	tBu	CHOH	CH ₂	CH ₂	isoxazol-3-ol-5-yl
465	tBu	C(Me)OH	CH ₂	CH ₂	isoxazol-3-ol-5-yl
466	tBu	C(O)	CH(Me)	CH ₂	isoxazol-3-ol-5-yl
467	tBu	CHOH	CH(Me)	CH ₂	isoxazol-3-ol-5-yl
468	tBu	C(Me)OH	CH(Me)	CH ₂	isoxazol-3-ol-5-yl

5. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or pharmaceutically

5 acceptable salt thereof represented by the formula:

-275-



said compound is selected from a compound code numbered 1A thru 468A, with each compound having the specific selection of substituents R_B , R_C , L_1 , L_2 , and L_3 shown in the row following the compound code number, as set out in the following Table 2 :

5

Table 2

	R_B	L_3	L_2	L_1	R_C
1A	tBu	C(O)	CH ₂	CH ₂	CO ₂ Me
2A	tBu	CHOH	CH ₂	CH ₂	CO ₂ Me
3A	tBu	C(Me)OH	CH ₂	CH ₂	CO ₂ Me
4A	tBu	C(O)	CH(Me)	CH ₂	CO ₂ Me
5A	tBu	CHOH	CH(Me)	CH ₂	CO ₂ Me
6A	tBu	C(Me)OH	CH(Me)	CH ₂	CO ₂ Me
7A	tBu	C(O)	CH ₂	CH ₂	CO ₂ H
8A	tBu	CHOH	CH ₂	CH ₂	CO ₂ H
9A	tBu	C(Me)OH	CH ₂	CH ₂	CO ₂ H
10A	tBu	C(O)	CH(Me)	CH ₂	CO ₂ H
11A	tBu	CHOH	CH(Me)	CH ₂	CO ₂ H
12A	tBu	C(Me)OH	CH(Me)	CH ₂	CO ₂ H
13A	tBu	C(O)	CH ₂	CH ₂	C(O)NH ₂
14A	tBu	CHOH	CH ₂	CH ₂	C(O)NH ₂
15A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NH ₂
16A	tBu	C(O)	CH(Me)	CH ₂	C(O)NH ₂
17A	tBu	CHOH	CH(Me)	CH ₂	C(O)NH ₂
18A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NH ₂
19A	tBu	C(O)	CH ₂	CH ₂	C(O)NMe ₂
20A	tBu	CHOH	CH ₂	CH ₂	C(O)NMe ₂
21A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NMe ₂

-276-

22A	tBu	C(O)	CH(Me)	CH2	C(O)NMe2
23A	tBu	CHOH	CH(Me)	CH2	C(O)NMe2
24A	tBu	C(Me)OH	CH(Me)	CH2	C(O)NMe2
25A	tBu	C(O)	CH2	CH2	5-tetrazolyl
26A	tBu	CHOH	CH2	CH2	5-tetrazolyl
27A	tBu	C(Me)OH	CH2	CH2	5-tetrazolyl
28A	tBu	C(O)	CH(Me)	CH2	5-tetrazolyl
29A	tBu	CHOH	CH(Me)	CH2	5-tetrazolyl
30A	tBu	C(Me)OH	CH(Me)	CH2	5-tetrazolyl
31A	tBu	C(O)	CH2	CH2	C(O)-NH-5-tetrazolyl
32A	tBu	CHOH	CH2	CH2	C(O)-NH-5-tetrazolyl
33A	tBu	C(Me)OH	CH2	CH2	C(O)-NH-5-tetrazolyl
34A	tBu	C(O)	CH(Me)	CH2	C(O)-NH-5-tetrazolyl
35A	tBu	CHOH	CH(Me)	CH2	C(O)-NH-5-tetrazolyl
36A	tBu	C(Me)OH	CH(Me)	CH2	C(O)-NH-5-tetrazolyl
37A	tBu	C(O)	CH2	CH2	C(O)NHCH2SO2Me
38A	tBu	CHOH	CH2	CH2	C(O)NHCH2SO2Me
39A	tBu	C(Me)OH	CH2	CH2	C(O)NHCH2SO2Me
40A	tBu	C(O)	CH(Me)	CH2	C(O)NHCH2SO2Me
41A	tBu	CHOH	CH(Me)	CH2	C(O)NHCH2SO2Me
42A	tBu	C(Me)OH	CH(Me)	CH2	C(O)NHCH2SO2Me
43A	tBu	C(O)	CH2	CH2	C(O)NHCH2S(O)Me
44A	tBu	CHOH	CH2	CH2	C(O)NHCH2S(O)Me
45A	tBu	C(Me)OH	CH2	CH2	C(O)NHCH2S(O)Me
46A	tBu	C(O)	CH(Me)	CH2	C(O)NHCH2S(O)Me
47A	tBu	CHOH	CH(Me)	CH2	C(O)NHCH2S(O)Me
48A	tBu	C(Me)OH	CH(Me)	CH2	C(O)NHCH2S(O)Me
49A	tBu	C(O)	CH2	CH2	C(O)NHCH2CH2SO2Me
50A	tBu	CHOH	CH2	CH2	C(O)NHCH2CH2SO2Me
51A	tBu	C(Me)OH	CH2	CH2	C(O)NHCH2CH2SO2Me
52A	tBu	C(O)	CH(Me)	CH2	C(O)NHCH2CH2SO2Me

-277-

53A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHCH ₂ CH ₂ SO ₂ Me
54A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHCH ₂ CH ₂ SO ₂ Me
55A	tBu	C(O)	CH ₂	CH ₂	C(O)NHCH ₂ CH ₂ S(O)Me
56A	tBu	CHOH	CH ₂	CH ₂	C(O)NHCH ₂ CH ₂ S(O)Me
57A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHCH ₂ CH ₂ S(O)Me
58A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHCH ₂ CH ₂ S(O)Me
59A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHCH ₂ CH ₂ S(O)Me
60A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHCH ₂ CH ₂ S(O)Me
61A	tBu	C(O)	CH ₂	CH ₂	C(O)NHSO ₂ Me
62A	tBu	CHOH	CH ₂	CH ₂	C(O)NHSO ₂ Me
63A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHSO ₂ Me
64A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHSO ₂ Me
65A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHSO ₂ Me
66A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHSO ₂ Me
67A	tBu	C(O)	CH ₂	CH ₂	C(O)NHS(O)Me
68A	tBu	CHOH	CH ₂	CH ₂	C(O)NHS(O)Me
69A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHS(O)Me
70A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHS(O)Me
71A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHS(O)Me
72A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHS(O)Me
73A	tBu	C(O)	CH ₂	CH ₂	C(O)NHSO ₂ Et
74A	tBu	CHOH	CH ₂	CH ₂	C(O)NHSO ₂ Et
75A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHSO ₂ Et
76A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHSO ₂ Et
77A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHSO ₂ Et
78A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHSO ₂ Et
79A	tBu	C(O)	CH ₂	CH ₂	C(O)NHS(O)Et
80A	tBu	CHOH	CH ₂	CH ₂	C(O)NHS(O)Et
81A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHS(O)Et
82A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHS(O)Et
83A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHS(O)Et

-278-

84A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHS(O)Et
85A	tBu	C(O)	CH ₂	CH ₂	C(O)NHSO ₂ iPr
86A	tBu	CHOH	CH ₂	CH ₂	C(O)NHSO ₂ iPr
87A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHSO ₂ iPr
88A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHSO ₂ iPr
89A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHSO ₂ iPr
90A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHSO ₂ iPr
91A	tBu	C(O)	CH ₂	CH ₂	C(O)NHS(O)iPr
92A	tBu	CHOH	CH ₂	CH ₂	C(O)NHS(O)iPr
93A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHS(O)iPr
94A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHS(O)iPr
95A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHS(O)iPr
96A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHS(O)iPr
97A	tBu	C(O)	CH ₂	CH ₂	C(O)NHSO ₂ tBu
98A	tBu	CHOH	CH ₂	CH ₂	C(O)NHSO ₂ tBu
99A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHSO ₂ tBu
100A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHSO ₂ tBu
101A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHSO ₂ tBu
102A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHSO ₂ tBu
103A	tBu	C(O)	CH ₂	CH ₂	C(O)NHS(O)tBu
104A	tBu	CHOH	CH ₂	CH ₂	C(O)NHS(O)tBu
105A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)NHS(O)tBu
106A	tBu	C(O)	CH(Me)	CH ₂	C(O)NHS(O)tBu
107A	tBu	CHOH	CH(Me)	CH ₂	C(O)NHS(O)tBu
108A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)NHS(O)tBu
109A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHSO ₂ Me
110A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHSO ₂ Me
111A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHSO ₂ Me
112A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHSO ₂ Me
113A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHSO ₂ Me
114A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHSO ₂ Me

-279-

115A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHS(O)Me
116A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHS(O)Me
117A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHS(O)Me
118A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHS(O)Me
119A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHS(O)Me
120A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHS(O)Me
121A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHSO ₂ Et
122A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHSO ₂ Et
123A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHSO ₂ Et
124A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHSO ₂ Et
125A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHSO ₂ Et
126A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHSO ₂ Et
127A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHS(O)Et
128A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHS(O)Et
129A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHS(O)Et
130A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHS(O)Et
131A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHS(O)Et
132A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHS(O)Et
133A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHSO ₂ iPr
134A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHSO ₂ iPr
135A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHSO ₂ iPr
136A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHSO ₂ iPr
137A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHSO ₂ iPr
138A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHSO ₂ iPr
139A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHS(O)iPr
140A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHS(O)iPr
141A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHS(O)iPr
142A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHS(O)iPr
143A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHS(O)iPr
144A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHS(O)iPr
145A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHSO ₂ tBu

-280-

146A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHSO ₂ tBu
147A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHSO ₂ tBu
148A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHSO ₂ tBu
149A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHSO ₂ tBu
150A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHSO ₂ tBu
151A	tBu	C(O)	CH ₂	CH ₂	CH ₂ NHS(O)tBu
152A	tBu	CHOH	CH ₂	CH ₂	CH ₂ NHS(O)tBu
153A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ NHS(O)tBu
154A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ NHS(O)tBu
155A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ NHS(O)tBu
156A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ NHS(O)tBu
157A	tBu	C(O)	CH ₂	CH ₂	CH ₂ -N-pyrrolidin-2-one
158A	tBu	CHOH	CH ₂	CH ₂	CH ₂ -N-pyrrolidin-2-one
159A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ -N-pyrrolidin-2-one
160A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ -N-pyrrolidin-2-one
161A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ -N-pyrrolidin-2-one
162A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ -N-pyrrolidin-2-one
163A	tBu	C(O)	CH ₂	CH ₂	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
164A	tBu	CHOH	CH ₂	CH ₂	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
165A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
166A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
167A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
168A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
169A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CO ₂ Me
170A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CO ₂ Me

-281-

171A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CO ₂ Me
172A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CO ₂ Me
173A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CO ₂ Me
174A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CO ₂ Me
175A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CO ₂ H
176A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CO ₂ H
177A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CO ₂ H
178A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CO ₂ H
179A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CO ₂ H
180A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CO ₂ H
181A	tBu	C(O)	CH ₂	CH ₂	CH ₂ C(O)NH ₂
182A	tBu	CHOH	CH ₂	CH ₂	CH ₂ C(O)NH ₂
183A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ C(O)NH ₂
184A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ C(O)NH ₂
185A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ C(O)NH ₂
186A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ C(O)NH ₂
187A	tBu	C(O)	CH ₂	CH ₂	CH ₂ C(O)NMe ₂
188A	tBu	CHOH	CH ₂	CH ₂	CH ₂ C(O)NMe ₂
189A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ C(O)NMe ₂
190A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ C(O)NMe ₂
191A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ C(O)NMe ₂
192A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ C(O)NMe ₂
193A	tBu	C(O)	CH ₂	CH ₂	CH ₂ C(O)-N-pyrrolidine
194A	tBu	CHOH	CH ₂	CH ₂	CH ₂ C(O)-N-pyrrolidine
195A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ C(O)-N-pyrrolidine
196A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ C(O)-N-pyrrolidine
197A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ C(O)-N-pyrrolidine
198A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ C(O)-N-pyrrolidine
199A	tBu	C(O)	CH ₂	CH ₂	CH ₂ -5-tetrazolyl
200A	tBu	CHOH	CH ₂	CH ₂	CH ₂ -5-tetrazolyl
201A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ -5-tetrazolyl

-282-

202A	tBu	C(O)	CH(Me)	CH2	CH2-5-tetrazolyl
203A	tBu	CHOH	CH(Me)	CH2	CH2-5-tetrazolyl
204A	tBu	C(Me)OH	CH(Me)	CH2	CH2-5-tetrazolyl
205A	tBu	C(O)	CH2	CH2	C(O)C(O)OH
206A	tBu	CHOH	CH2	CH2	C(O)C(O)OH
207A	tBu	C(Me)OH	CH2	CH2	C(O)C(O)OH
208A	tBu	C(O)	CH(Me)	CH2	C(O)C(O)OH
209A	tBu	CHOH	CH(Me)	CH2	C(O)C(O)OH
210A	tBu	C(Me)OH	CH(Me)	CH2	C(O)C(O)OH
211A	tBu	C(O)	CH2	CH2	CH(OH)C(O)OH
212A	tBu	CHOH	CH2	CH2	CH(OH)C(O)OH
213A	tBu	C(Me)OH	CH2	CH2	CH(OH)C(O)OH
214A	tBu	C(O)	CH(Me)	CH2	CH(OH)C(O)OH
215A	tBu	CHOH	CH(Me)	CH2	CH(OH)C(O)OH
216A	tBu	C(Me)OH	CH(Me)	CH2	CH(OH)C(O)OH
217A	tBu	C(O)	CH2	CH2	C(O)C(O)NH2
218A	tBu	CHOH	CH2	CH2	C(O)C(O)NH2
219A	tBu	C(Me)OH	CH2	CH2	C(O)C(O)NH2
220A	tBu	C(O)	CH(Me)	CH2	C(O)C(O)NH2
221A	tBu	CHOH	CH(Me)	CH2	C(O)C(O)NH2
222A	tBu	C(Me)OH	CH(Me)	CH2	C(O)C(O)NH2
223A	tBu	C(O)	CH2	CH2	CH(OH)C(O)NH2
224A	tBu	CHOH	CH2	CH2	CH(OH)C(O)NH2
225A	tBu	C(Me)OH	CH2	CH2	CH(OH)C(O)NH2
226A	tBu	C(O)	CH(Me)	CH2	CH(OH)C(O)NH2
227A	tBu	CHOH	CH(Me)	CH2	CH(OH)C(O)NH2
228A	tBu	C(Me)OH	CH(Me)	CH2	CH(OH)C(O)NH2
229A	tBu	C(O)	CH2	CH2	C(O)C(O)NMe2
230A	tBu	CHOH	CH2	CH2	C(O)C(O)NMe2
231A	tBu	C(Me)OH	CH2	CH2	C(O)C(O)NMe2
232A	tBu	C(O)	CH(Me)	CH2	C(O)C(O)NMe2

-283-

233A	tBu	CHOH	CH(Me)	CH2	C(O)C(O)NMe2
234A	tBu	C(Me)OH	CH(Me)	CH2	C(O)C(O)NMe2
235A	tBu	C(O)	CH2	CH2	CH(OH)C(O)NMe2
236A	tBu	CHOH	CH2	CH2	CH(OH)C(O)NMe2
237A	tBu	C(Me)OH	CH2	CH2	CH(OH)C(O)NMe2
238A	tBu	C(O)	CH(Me)	CH2	CH(OH)C(O)NMe2
239A	tBu	CHOH	CH(Me)	CH2	CH(OH)C(O)NMe2
240A	tBu	C(Me)OH	CH(Me)	CH2	CH(OH)C(O)NMe2
241A	tBu	C(O)	CH2	CH2	CH2CH2CO2H
242A	tBu	CHOH	CH2	CH2	CH2CH2CO2H
243A	tBu	C(Me)OH	CH2	CH2	CH2CH2CO2H
244A	tBu	C(O)	CH(Me)	CH2	CH2CH2CO2H
245A	tBu	CHOH	CH(Me)	CH2	CH2CH2CO2H
246A	tBu	C(Me)OH	CH(Me)	CH2	CH2CH2CO2H
247A	tBu	C(O)	CH2	CH2	CH2CH2C(O)NH2
248A	tBu	CHOH	CH2	CH2	CH2CH2C(O)NH2
249A	tBu	C(Me)OH	CH2	CH2	CH2CH2C(O)NH2
250A	tBu	C(O)	CH(Me)	CH2	CH2CH2C(O)NH2
251A	tBu	CHOH	CH(Me)	CH2	CH2CH2C(O)NH2
252A	tBu	C(Me)OH	CH(Me)	CH2	CH2CH2C(O)NH2
253A	tBu	C(O)	CH2	CH2	CH2CH2C(O)NMe2
254A	tBu	CHOH	CH2	CH2	CH2CH2C(O)NMe2
255A	tBu	C(Me)OH	CH2	CH2	CH2CH2C(O)NMe2
256A	tBu	C(O)	CH(Me)	CH2	CH2CH2C(O)NMe2
257A	tBu	CHOH	CH(Me)	CH2	CH2CH2C(O)NMe2
258A	tBu	C(Me)OH	CH(Me)	CH2	CH2CH2C(O)NMe2
259A	tBu	C(O)	CH2	CH2	CH2CH2-5-tetrazolyl
260A	tBu	CHOH	CH2	CH2	CH2CH2-5-tetrazolyl
261A	tBu	C(Me)OH	CH2	CH2	CH2CH2-5-tetrazolyl
262A	tBu	C(O)	CH(Me)	CH2	CH2CH2-5-tetrazolyl
263A	tBu	CHOH	CH(Me)	CH2	CH2CH2-5-tetrazolyl

-284-

264A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ -5-tetrazolyl
265A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O) ₂ Me
266A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O) ₂ Me
267A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O) ₂ Me
268A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O) ₂ Me
269A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O) ₂ Me
270A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O) ₂ Me
271A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O)Me
272A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O ₂ Me)
273A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O)Me
274A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O)Me
275A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O)Me
276A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O)Me
277A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ Me
278A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ Me
279A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ Me
280A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ Me
281A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ Me
282A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ Me
283A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)Me
284A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)Me
285A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)Me
286A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)Me
287A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)Me
288A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)Me
289A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
290A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
291A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
292A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
293A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Me
294A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Me

-285-

295A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Me
296A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Me
297A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Me
298A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Me
299A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Me
300A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Me
301A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O) ₂ Et
302A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O) ₂ Et
303A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O) ₂ Et
304A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O) ₂ Et
305A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O) ₂ Et
306A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O) ₂ Et
307A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O)Et
308A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O)Et
309A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O)Et
310A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O)Et
311A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O)Et
312A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O)Et
313A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ Et
314A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ Et
315A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ Et
316A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ Et
317A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ Et
318A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ Et
319A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)Et
320A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)Et
321A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)Et
322A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)Et
323A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)Et
324A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)Et
325A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ Et

-286-

326A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)2Et
327A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)2Et
328A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)2Et
329A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)2Et
330A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)2Et
331A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Et
332A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Et
333A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Et
334A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Et
335A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Et
336A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)Et
337A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O)2iPr
338A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O)2iPr
339A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O)2iPr
340A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O)2iPr
341A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O)2iPr
342A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O)2iPr
343A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O)iPr
344A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O)iPr
345A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O)iPr
346A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O)iPr
347A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O)iPr
348A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O)iPr
349A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)2iPr
350A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)2iPr
351A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)2iPr
352A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)2iPr
353A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)2iPr
354A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)2iPr
355A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)iPr
356A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)iPr

-287-

357A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)iPr
358A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)iPr
359A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)iPr
360A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)iPr
361A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O) ₂ tBu
362A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O) ₂ tBu
363A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O) ₂ tBu
364A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O) ₂ tBu
365A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O) ₂ tBu
366A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O) ₂ tBu
367A	tBu	C(O)	CH ₂	CH ₂	CH ₂ S(O)tBu
368A	tBu	CHOH	CH ₂	CH ₂	CH ₂ S(O)tBu
369A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ S(O)tBu
370A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ S(O)tBu
371A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ S(O)tBu
372A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ S(O)tBu
373A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ tBu
374A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ tBu
375A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ tBu
376A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ tBu
377A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ tBu
378A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ tBu
379A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)tBu
380A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)tBu
381A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)tBu
382A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)tBu
383A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)tBu
384A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)tBu
385A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ NH ₂
386A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ NH ₂
387A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ NH ₂

-288-

388A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ NH ₂
389A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ NH ₂
390A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ NH ₂
391A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)NH ₂
392A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)NH ₂
393A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)NH ₂
394A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)NH ₂
395A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)NH ₂
396A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)NH ₂
397A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ NMe ₂
398A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ NMe ₂
399A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O) ₂ NMe ₂
400A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ NMe ₂
401A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ NMe ₂
402A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O) ₂ NMe ₂
403A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ S(O)NMe ₂
404A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)NMe ₂
405A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ S(O)NMe ₂
406A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)NMe ₂
407A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)NMe ₂
408A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ S(O)NMe ₂
409A	tBu	C(O)	CH ₂	CH ₂	C(O)CH ₂ S(O) ₂ Me
410A	tBu	CHOH	CH ₂	CH ₂	C(O)CH ₂ S(O) ₂ Me
411A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)CH ₂ S(O) ₂ Me
412A	tBu	C(O)	CH(Me)	CH ₂	C(O)CH ₂ S(O) ₂ Me
413A	tBu	CHOH	CH(Me)	CH ₂	C(O)CH ₂ S(O) ₂ Me
414A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)CH ₂ S(O) ₂ Me
415A	tBu	C(O)	CH ₂	CH ₂	C(O)CH ₂ S(O)Me
416A	tBu	CHOH	CH ₂	CH ₂	C(O)CH ₂ S(O)Me
417A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)CH ₂ S(O)Me
418A	tBu	C(O)	CH(Me)	CH ₂	C(O)CH ₂ S(O)Me

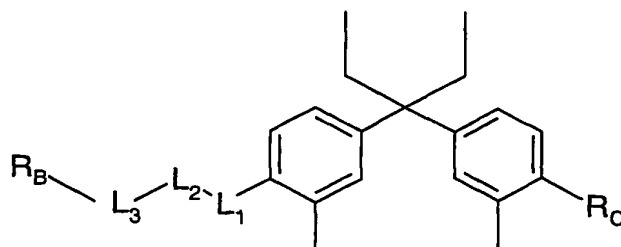
-289-

419A	tBu	CHOH	CH(Me)	CH ₂	C(O)CH ₂ S(O)Me
420A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)CH ₂ S(O)Me
421A	tBu	C(O)	CH ₂	CH ₂	C(O)CH ₂ CH ₂ S(O) ₂ Me
422A	tBu	CHOH	CH ₂	CH ₂	C(O)CH ₂ CH ₂ S(O) ₂ Me
423A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)CH ₂ CH ₂ S(O) ₂ Me
424A	tBu	C(O)	CH(Me)	CH ₂	C(O)CH ₂ CH ₂ S(O) ₂ Me
425A	tBu	CHOH	CH(Me)	CH ₂	C(O)CH ₂ CH ₂ S(O) ₂ Me
426A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)CH ₂ CH ₂ S(O) ₂ Me
427A	tBu	C(O)	CH ₂	CH ₂	C(O)CH ₂ CH ₂ S(O)Me
428A	tBu	CHOH	CH ₂	CH ₂	C(O)CH ₂ CH ₂ S(O)Me
429A	tBu	C(Me)OH	CH ₂	CH ₂	C(O)CH ₂ CH ₂ S(O)Me
430A	tBu	C(O)	CH(Me)	CH ₂	C(O)CH ₂ CH ₂ S(O)Me
431A	tBu	CHOH	CH(Me)	CH ₂	C(O)CH ₂ CH ₂ S(O)Me
432A	tBu	C(Me)OH	CH(Me)	CH ₂	C(O)CH ₂ CH ₂ S(O)Me
433A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
434A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
435A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
436A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
437A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
438A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
439A	tBu	C(O)	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)NH ₂
440A	tBu	CHOH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)NH ₂
441A	tBu	C(Me)OH	CH ₂	CH ₂	CH ₂ CH ₂ CH ₂ S(O)NH ₂
442A	tBu	C(O)	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)NH ₂
443A	tBu	CHOH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)NH ₂
444A	tBu	C(Me)OH	CH(Me)	CH ₂	CH ₂ CH ₂ CH ₂ S(O)NH ₂
445A	tBu	C(O)	CH ₂	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
446A	tBu	CHOH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
447A	tBu	C(Me)OH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
448A	tBu	C(O)	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
449A	tBu	CHOH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-one-5-yl

-290-

450A	tBu	C(Me)OH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-one-5-yl
451A	tBu	C(O)	CH ₂	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
452A	tBu	CHOH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
453A	tBu	C(Me)OH	CH ₂	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
454A	tBu	C(O)	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
455A	tBu	CHOH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
456A	tBu	C(Me)OH	CH(Me)	CH ₂	1,3,4-oxadiazolin-2-thione-5-yl
457A	tBu	C(O)	CH ₂	CH ₂	imidazolidine-2,4-dione-5-yl
458A	tBu	CHOH	CH ₂	CH ₂	imidazolidine-2,4-dione-5-yl
459A	tBu	C(Me)OH	CH ₂	CH ₂	imidazolidine-2,4-dione-5-yl
460A	tBu	C(O)	CH(Me)	CH ₂	imidazolidine-2,4-dione-5-yl
461A	tBu	CHOH	CH(Me)	CH ₂	imidazolidine-2,4-dione-5-yl
462A	tBu	C(Me)OH	CH(Me)	CH ₂	imidazolidine-2,4-dione-5-yl
463A	tBu	C(O)	CH ₂	CH ₂	isoxazol-3-ol-5-yl
464A	tBu	CHOH	CH ₂	CH ₂	isoxazol-3-ol-5-yl
465A	tBu	C(Me)OH	CH ₂	CH ₂	isoxazol-3-ol-5-yl
466A	tBu	C(O)	CH(Me)	CH ₂	isoxazol-3-ol-5-yl
467A	tBu	CHOH	CH(Me)	CH ₂	isoxazol-3-ol-5-yl
468A	tBu	C(Me)OH	CH(Me)	CH ₂	isoxazol-3-ol-5-yl

6. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or pharmaceutically acceptable salt thereof represented by the formula:



5

where said compound is selected from a compound code numbered 1B thru 162B, with each compound having the specific selection of substituents R_B , R_C , L_1 , L_2 , and L_3 shown in the row following the compound code number, as set out in the following

-291-

Table 3 :

Table 3

	R _B	L ₃	L ₂	L ₁	R _C
1B	tBu	C(O)	CH ₂	O	-C(O)NH-CH ₂ -C(O)OH
2B	tBu	CHOH	CH ₂	O	-C(O)NH-CH ₂ -C(O)OH
3B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH ₂ -C(O)OH
4B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH ₂ -C(O)OH
5B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH ₂ -C(O)OH
6B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH ₂ -C(O)OH
7B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(Me)-C(O)OH
8B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(Me)-C(O)OH
9B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(Me)-C(O)OH
10B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(Me)-C(O)OH
11B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(Me)-C(O)OH
12B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(Me)-C(O)OH
13B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(Et)-C(O)OH
14B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(Et)-C(O)OH
15B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(Et)-C(O)OH
16B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(Et)-C(O)OH
17B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(Et)-C(O)OH
18B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(Et)-C(O)OH
19B	tBu	C(O)	CH ₂	O	-C(O)NH-C(Me) ₂ -C(O)OH
20B	tBu	CHOH	CH ₂	O	-C(O)NH-C(Me) ₂ -C(O)OH
21B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-C(Me) ₂ -C(O)OH
22B	tBu	C(O)	CH(Me)	O	-C(O)NH-C(Me) ₂ -C(O)OH
23B	tBu	CHOH	CH(Me)	O	-C(O)NH-C(Me) ₂ -C(O)OH
24B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-C(Me) ₂ -C(O)OH
25B	tBu	C(O)	CH ₂	O	-C(O)NH-CMe(Et)-C(O)OH
26B	tBu	CHOH	CH ₂	O	-C(O)NH-CMe(Et)-C(O)OH
27B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CMe(Et)-C(O)OH
28B	tBu	C(O)	CH(Me)	O	-C(O)NH-CMe(Et)-C(O)OH

-292-

29B	tBu	CHOH	CH(Me)	O	-C(O)NH-CMe(Et)-C(O)OH
30B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CMe(Et)-C(O)OH
31B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(F)-C(O)OH
32B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(F)-C(O)OH
33B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(F)-C(O)OH
34B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(F)-C(O)OH
35B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(F)-C(O)OH
36B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(F)-C(O)OH
37B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(CF ₃)-C(O)OH
38B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(CF ₃)-C(O)OH
39B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(CF ₃)-C(O)OH
40B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(CF ₃)-C(O)OH
41B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(CF ₃)-C(O)OH
42B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(CF ₃)-C(O)OH
43B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(OH)-C(O)OH
44B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(OH)-C(O)OH
45B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(OH)-C(O)OH
46B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(OH)-C(O)OH
47B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(OH)-C(O)OH
48B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(OH)-C(O)OH
49B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(cyclopropyl)-C(O)OH
50B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(cyclopropyl)-C(O)OH
51B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(cyclopropyl)-C(O)OH
52B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(cyclopropyl)-C(O)OH
53B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(cyclopropyl)-C(O)OH
54B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(cyclopropyl)-C(O)OH
55B	tBu	C(O)	CH ₂	O	-C(O)NH-CH(Me)-C(O)OH
56B	tBu	CHOH	CH ₂	O	-C(O)NH-CH(Me)-C(O)OH
57B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CH(Me)-C(O)OH
58B	tBu	C(O)	CH(Me)	O	-C(O)NH-CH(Me)-C(O)OH
59B	tBu	CHOH	CH(Me)	O	-C(O)NH-CH(Me)-C(O)OH

-293-

60B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CH(Me)-C(O)OH
61B	tBu	C(O)	CH ₂	O	-C(O)NH-C(Me) ₂ -C(O)OH
62B	tBu	CHOH	CH ₂	O	-C(O)NH-C(Me) ₂ -C(O)OH
63B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-C(Me) ₂ -C(O)OH
64B	tBu	C(O)	CH(Me)	O	-C(O)NH-C(Me) ₂ -C(O)OH
65B	tBu	CHOH	CH(Me)	O	-C(O)NH-C(Me) ₂ -C(O)OH
66B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-C(Me) ₂ -C(O)OH
67B	tBu	C(O)	CH ₂	O	-C(O)NH-CF(Me)-C(O)OH
68B	tBu	CHOH	CH ₂	O	-C(O)NH-CF(Me)-C(O)OH
69B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-CF(Me)-C(O)OH
70B	tBu	C(O)	CH(Me)	O	-C(O)NH-CF(Me)-C(O)OH
71B	tBu	CHOH	CH(Me)	O	-C(O)NH-CF(Me)-C(O)OH
72B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-CF(Me)-C(O)OH
73B	tBu	C(O)	CH ₂	O	-C(O)NH-C(Me)(CF ₃)-C(O)OH
74B	tBu	CHOH	CH ₂	O	-C(O)NH-C(Me)(CF ₃)-C(O)OH
75B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-C(Me)(CF ₃)-C(O)OH
76B	tBu	C(O)	CH(Me)	O	-C(O)NH-C(Me)(CF ₃)-C(O)OH
77B	tBu	CHOH	CH(Me)	O	-C(O)NH-C(Me)(CF ₃)-C(O)OH
78B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-C(Me)(CF ₃)-C(O)OH
79B	tBu	C(O)	CH ₂	O	-C(O)NH-C(Me)(OH)-C(O)OH
80B	tBu	CHOH	CH ₂	O	-C(O)NH-C(Me)(OH)-C(O)OH
81B	tBu	C(Me)OH	CH ₂	O	-C(O)NH-C(Me)(OH)-C(O)OH
82B	tBu	C(O)	CH(Me)	O	-C(O)NH-C(Me)(OH)-C(O)OH
83B	tBu	CHOH	CH(Me)	O	-C(O)NH-C(Me)(OH)-C(O)OH
84B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH-C(Me)(OH)-C(O)OH
85B	tBu	C(O)	CH ₂	O	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
86B	tBu	CHOH	CH ₂	O	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
87B	tBu	C(Me)OH	CH ₂	O	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H

-294-

88B	tBu	C(O)	CH(Me)	O	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
89B	tBu	CHOH	CH(Me)	O	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
90B	tBu	C(Me)OH	CH(Me)	O	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
91B	tBu	C(O)	CH ₂	O	-C(O)NMe-CH ₂ -C(O)OH
92B	tBu	CHOH	CH ₂	O	-C(O)NMe-CH ₂ -C(O)OH
93B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CH ₂ -C(O)OH
94B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CH ₂ -C(O)OH
95B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CH ₂ -C(O)OH
96B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CH ₂ -C(O)OH
97B	tBu	C(O)	CH ₂	O	-C(O)NMe-CH(Me)-C(O)OH
98B	tBu	CHOH	CH ₂	O	-C(O)NMe-CH(Me)-C(O)OH
99B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CH(Me)-C(O)OH
100B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CH(Me)-C(O)OH
101B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CH(Me)-C(O)OH
102B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CH(Me)-C(O)OH
103B	tBu	C(O)	CH ₂	O	-C(O)NMe-CH(F)-C(O)OH
104B	tBu	CHOH	CH ₂	O	-C(O)NMe-CH(F)-C(O)OH
105B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CH(F)-C(O)OH
106B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CH(F)-C(O)OH
107B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CH(F)-C(O)OH
108B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CH(F)-C(O)OH
109B	tBu	C(O)	CH ₂	O	-C(O)NMe-CH(CF ₃)-C(O)OH
110B	tBu	CHOH	CH ₂	O	-C(O)NMe-CH(CF ₃)-C(O)OH
111B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CH(CF ₃)-C(O)OH
112B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CH(CF ₃)-C(O)OH
113B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CH(CF ₃)-C(O)OH
114B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CH(CF ₃)-C(O)OH
115B	tBu	C(O)	CH ₂	O	-C(O)NMe-CH(OH)-C(O)OH

-295-

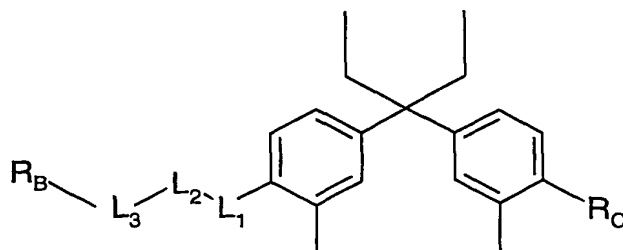
116B	tBu	CHOH	CH ₂	O	-C(O)NMe-CH(OH)-C(O)OH
117B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CH(OH)-C(O)OH
118B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CH(OH)-C(O)OH
119B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CH(OH)-C(O)OH
120B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CH(OH)-C(O)OH
121B	tBu	C(O)	CH ₂	O	-C(O)NMe-CH(cyclopropyl)- C(O)OH
122B	tBu	CHOH	CH ₂	O	-C(O)NMe-CH(cyclopropyl)- C(O)OH
123B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CH(cyclopropyl)- C(O)OH
124B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CH(cyclopropyl)- C(O)OH
125B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CH(cyclopropyl)- C(O)OH
126B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CH(cyclopropyl)- C(O)OH
127B	tBu	C(O)	CH ₂	O	-C(O)NMe-C(Me) ₂ -C(O)OH
128B	tBu	CHOH	CH ₂	O	-C(O)NMe-C(Me) ₂ -C(O)OH
129B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-C(Me) ₂ -C(O)OH
130B	tBu	C(O)	CH(Me)	O	-C(O)NMe-C(Me) ₂ -C(O)OH
131B	tBu	CHOH	CH(Me)	O	-C(O)NMe-C(Me) ₂ -C(O)OH
132B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-C(Me) ₂ -C(O)OH
133B	tBu	C(O)	CH ₂	O	-C(O)NMe-CF(Me)-C(O)OH
134B	tBu	CHOH	CH ₂	O	-C(O)NMe-CF(Me)-C(O)OH
135B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-CF(Me)-C(O)OH
136B	tBu	C(O)	CH(Me)	O	-C(O)NMe-CF(Me)-C(O)OH
137B	tBu	CHOH	CH(Me)	O	-C(O)NMe-CF(Me)-C(O)OH
138B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-CF(Me)-C(O)OH
139B	tBu	C(O)	CH ₂	O	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
140B	tBu	CHOH	CH ₂	O	-C(O)NMe-C(Me)(CF ₃)-C(O)OH

-296-

141B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
142B	tBu	C(O)	CH(Me)	O	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
143B	tBu	CHOH	CH(Me)	O	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
144B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
145B	tBu	C(O)	CH ₂	O	-C(O)NMe-C(Me)(OH)-C(O)OH
146B	tBu	CHOH	CH ₂	O	-C(O)NMe-C(Me)(OH)-C(O)OH
147B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-C(Me)(OH)-C(O)OH
148B	tBu	C(O)	CH(Me)	O	-C(O)NMe-C(Me)(OH)-C(O)OH
149B	tBu	CHOH	CH(Me)	O	-C(O)NMe-C(Me)(OH)-C(O)OH
150B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-C(Me)(OH)-C(O)OH
151B	tBu	C(O)	CH ₂	O	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
152B	tBu	CHOH	CH ₂	O	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
153B	tBu	C(Me)OH	CH ₂	O	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
154B	tBu	C(O)	CH(Me)	O	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
155B	tBu	CHOH	CH(Me)	O	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
156B	tBu	C(Me)OH	CH(Me)	O	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
157B	tBu	C(O)	CH ₂	O	-C(O)-N(Me)-5-tetrazolyl
158B	tBu	CHOH	CH ₂	O	-C(O)-N(Me)-5-tetrazolyl
159B	tBu	C(Me)OH	CH ₂	O	-C(O)-N(Me)-5-tetrazolyl
160B	tBu	C(O)	CH(Me)	O	-C(O)-N(Me)-5-tetrazolyl
161B	tBu	CHOH	CH(Me)	O	-C(O)-N(Me)-5-tetrazolyl
162B	tBu	C(Me)OH	CH(Me)	O	-C(O)-N(Me)-5-tetrazolyl

7. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or pharmaceutically acceptable salt thereof represented by the formula:

-297-



where said compound is selected from a compound code numbered 1C thru 162C, with each compound having the specific selection of substituents R_B , R_C , L_1 , L_2 , and L_3 shown in the row following the compound code number, as set out in the following

5 Table 4 :

Table 4

	R_B	L_3	L_2	L_1	R_C
1C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH ₂ -C(O)OH
2C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH ₂ -C(O)OH
3C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH ₂ -C(O)OH
4C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH ₂ -C(O)OH
5C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH ₂ -C(O)OH
6C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH ₂ -C(O)OH
7C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(Me)-C(O)OH
8C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(Me)-C(O)OH
9C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(Me)-C(O)OH
10C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(Me)-C(O)OH
11C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(Me)-C(O)OH
12C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(Me)-C(O)OH
13C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(Et)-C(O)OH
14C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(Et)-C(O)OH
15C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(Et)-C(O)OH
16C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(Et)-C(O)OH
17C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(Et)-C(O)OH
18C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(Et)-C(O)OH
19C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
20C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH

-298-

21C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
22C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
23C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
24C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
25C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CMe(Et)-C(O)OH
26C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CMe(Et)-C(O)OH
27C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CMe(Et)-C(O)OH
28C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CMe(Et)-C(O)OH
29C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CMe(Et)-C(O)OH
30C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CMe(Et)-C(O)OH
31C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(F)-C(O)OH
32C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(F)-C(O)OH
33C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(F)-C(O)OH
34C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(F)-C(O)OH
35C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(F)-C(O)OH
36C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(F)-C(O)OH
37C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(CF ₃)-C(O)OH
38C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(CF ₃)-C(O)OH
39C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(CF ₃)-C(O)OH
40C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(CF ₃)-C(O)OH
41C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(CF ₃)-C(O)OH
42C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(CF ₃)-C(O)OH
43C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(OH)-C(O)OH
44C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(OH)-C(O)OH
45C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(OH)-C(O)OH
46C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(OH)-C(O)OH
47C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(OH)-C(O)OH
48C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(OH)-C(O)OH
49C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(cyclopropyl)-C(O)OH
50C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(cyclopropyl)-C(O)OH
51C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(cyclopropyl)-C(O)OH

-299-

52C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(cyclopropyl)-C(O)OH
53C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(cyclopropyl)-C(O)OH
54C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(cyclopropyl)-C(O)OH
55C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CH(Me)-C(O)OH
56C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CH(Me)-C(O)OH
57C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CH(Me)-C(O)OH
58C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CH(Me)-C(O)OH
59C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CH(Me)-C(O)OH
60C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CH(Me)-C(O)OH
61C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
62C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
63C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
64C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
65C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
66C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-C(Me) ₂ -C(O)OH
67C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-CF(Me)-C(O)OH
68C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-CF(Me)-C(O)OH
69C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-CF(Me)-C(O)OH
70C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-CF(Me)-C(O)OH
71C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-CF(Me)-C(O)OH
72C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-CF(Me)-C(O)OH
73C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-C(Me)(CF ₃)-C(O)OH
74C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-C(Me)(CF ₃)-C(O)OH
75C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-C(Me)(CF ₃)-C(O)OH
76C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-C(Me)(CF ₃)-C(O)OH
77C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-C(Me)(CF ₃)-C(O)OH
78C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-C(Me)(CF ₃)-C(O)OH
79C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH-C(Me)(OH)-C(O)OH
80C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH-C(Me)(OH)-C(O)OH
81C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH-C(Me)(OH)-C(O)OH
82C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH-C(Me)(OH)-C(O)OH

-300-

83C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH-C(Me)(OH)-C(O)OH
84C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH-C(Me)(OH)-C(O)OH
85C	tBu	C(O)	CH ₂	CH ₂	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
86C	tBu	CHOH	CH ₂	CH ₂	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
87C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
88C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
89C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
90C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NH- C(Me)(cyclopropyl)CO ₂ H
91C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CH ₂ -C(O)OH
92C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CH ₂ -C(O)OH
93C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CH ₂ -C(O)OH
94C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CH ₂ -C(O)OH
95C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CH ₂ -C(O)OH
96C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CH ₂ -C(O)OH
97C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CH(Me)-C(O)OH
98C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CH(Me)-C(O)OH
99C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CH(Me)-C(O)OH
100C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CH(Me)-C(O)OH
101C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CH(Me)-C(O)OH
102C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CH(Me)-C(O)OH
103C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CH(F)-C(O)OH
104C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CH(F)-C(O)OH
105C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CH(F)-C(O)OH
106C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CH(F)-C(O)OH
107C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CH(F)-C(O)OH

-301-

108C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CH(F)-C(O)OH
109C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CH(CF ₃)-C(O)OH
110C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CH(CF ₃)-C(O)OH
111C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CH(CF ₃)-C(O)OH
112C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CH(CF ₃)-C(O)OH
113C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CH(CF ₃)-C(O)OH
114C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CH(CF ₃)-C(O)OH
115C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CH(OH)-C(O)OH
116C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CH(OH)-C(O)OH
117C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CH(OH)-C(O)OH
118C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CH(OH)-C(O)OH
119C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CH(OH)-C(O)OH
120C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CH(OH)-C(O)OH
121C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CH(cyclopropyl)-C(O)OH
122C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CH(cyclopropyl)-C(O)OH
123C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CH(cyclopropyl)-C(O)OH
124C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CH(cyclopropyl)-C(O)OH
125C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CH(cyclopropyl)-C(O)OH
126C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CH(cyclopropyl)-C(O)OH
127C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-C(Me) ₂ -C(O)OH
128C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-C(Me) ₂ -C(O)OH
129C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-C(Me) ₂ -C(O)OH
130C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-C(Me) ₂ -C(O)OH
131C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-C(Me) ₂ -C(O)OH
132C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-C(Me) ₂ -C(O)OH

-302-

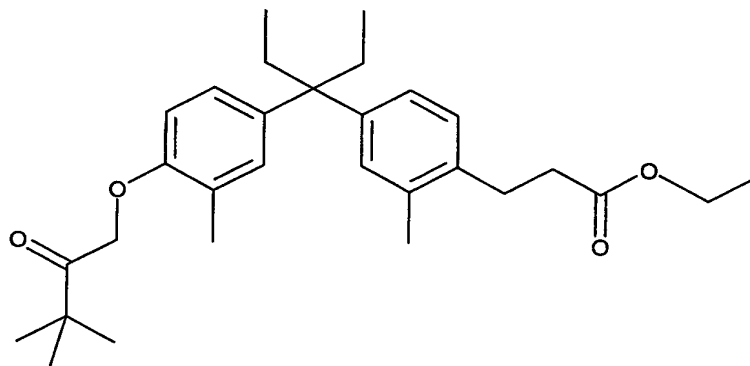
133C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-CF(Me)-C(O)OH
134C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-CF(Me)-C(O)OH
135C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-CF(Me)-C(O)OH
136C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-CF(Me)-C(O)OH
137C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-CF(Me)-C(O)OH
138C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-CF(Me)-C(O)OH
139C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
140C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
141C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
142C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
143C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
144C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-C(Me)(CF ₃)-C(O)OH
145C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-C(Me)(OH)-C(O)OH
146C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-C(Me)(OH)-C(O)OH
147C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-C(Me)(OH)-C(O)OH
148C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-C(Me)(OH)-C(O)OH
149C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-C(Me)(OH)-C(O)OH
150C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-C(Me)(OH)-C(O)OH
151C	tBu	C(O)	CH ₂	CH ₂	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
152C	tBu	CHOH	CH ₂	CH ₂	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
153C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
154C	tBu	C(O)	CH(Me)	CH ₂	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
155C	tBu	CHOH	CH(Me)	CH ₂	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
156C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)NMe-C(Me)(cyclopropyl)-C(O)OH
157C	tBu	C(O)	CH ₂	CH ₂	-C(O)-N(Me)-5-tetrazolyl

-303-

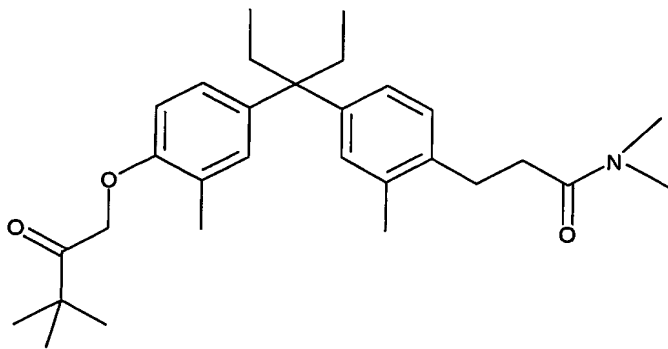
158C	tBu	CHOH	CH ₂	CH ₂	-C(O)-N(Me)-5-tetrazolyl
159C	tBu	C(Me)OH	CH ₂	CH ₂	-C(O)-N(Me)-5-tetrazolyl
160C	tBu	C(O)	CH(Me)	CH ₂	-C(O)-N(Me)-5-tetrazolyl
161C	tBu	CHOH	CH(Me)	CH ₂	-C(O)-N(Me)-5-tetrazolyl
162C	tBu	C(Me)OH	CH(Me)	CH ₂	-C(O)-N(Me)-5-tetrazolyl

8. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of compounds AA thru CY or a pharmaceutically acceptable salt, solvate, or prodrug derivative thereof:

5 AA)



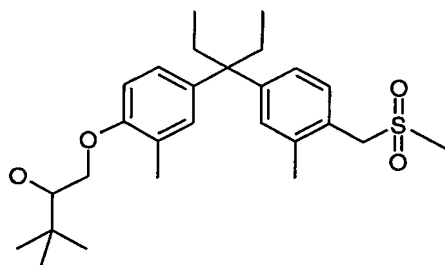
AE)



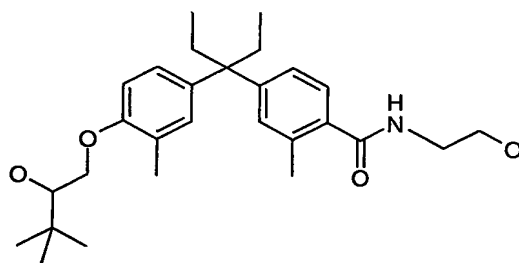
10

AP)

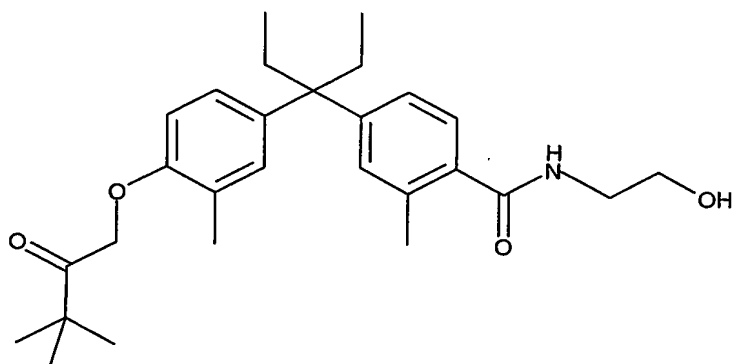
-304-



AR)

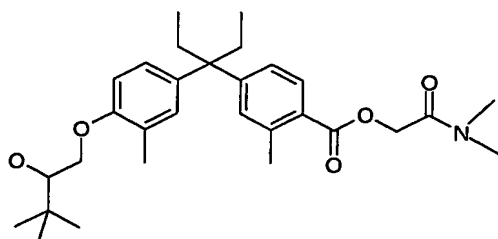


AT)



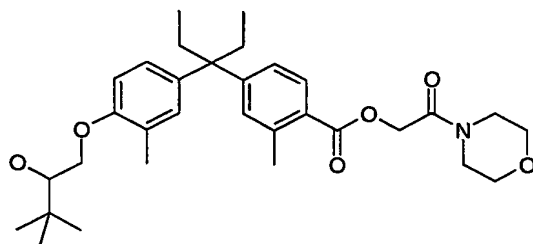
5

AW)

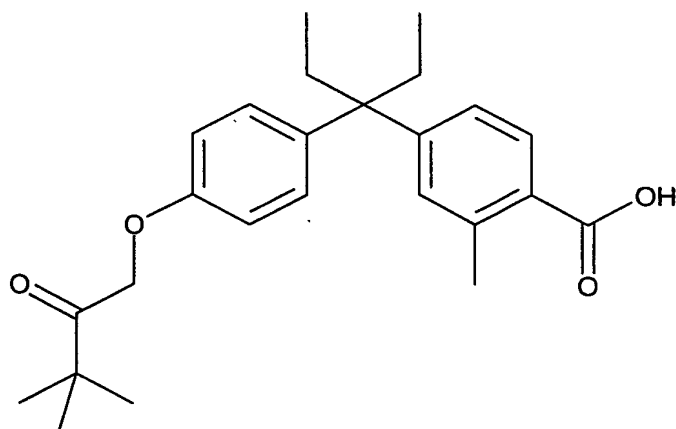


BA)

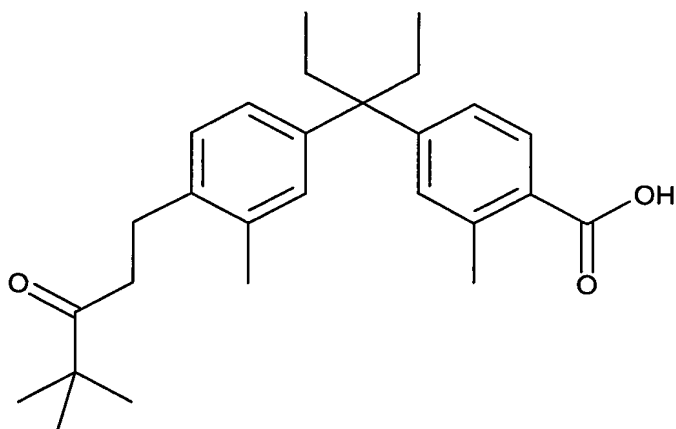
-305-



BE)



BH)

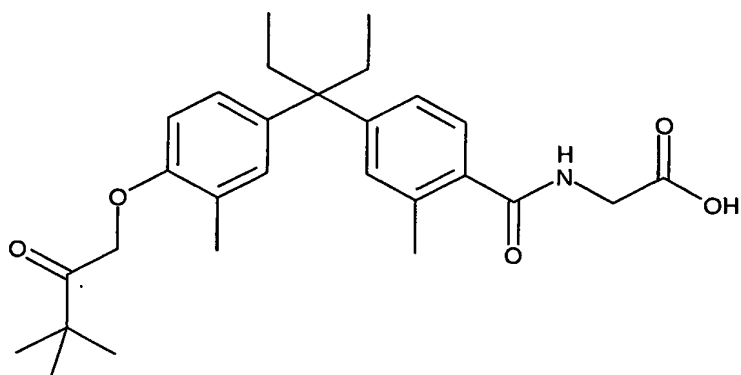


5

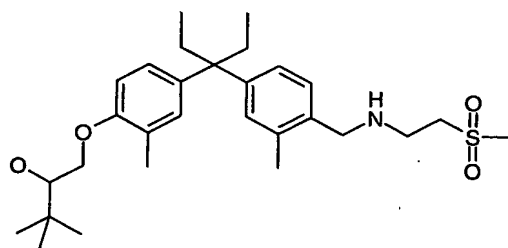
10

-306-

BI)

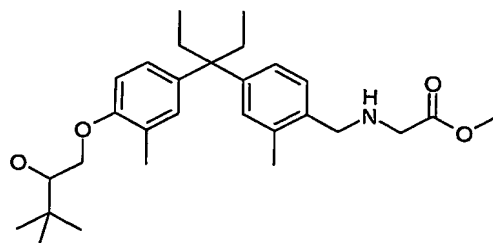


BJ)

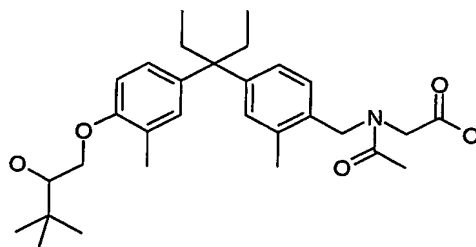


5

BN)

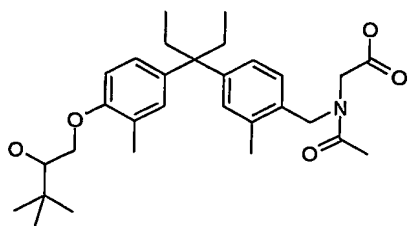


BP)

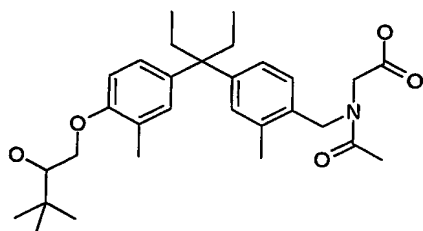


-307-

CA)

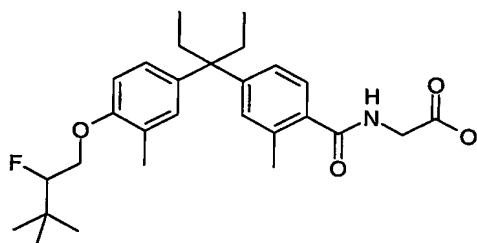


CB)

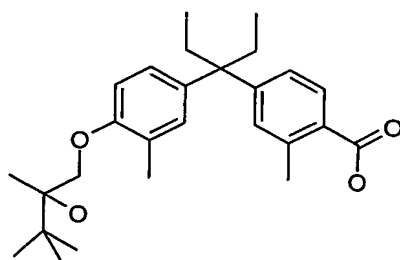


5

CC)



CE)

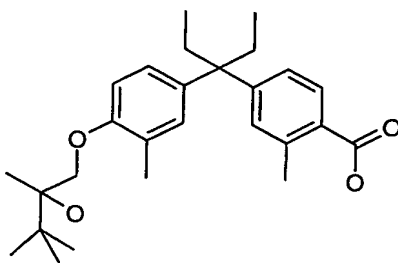


10

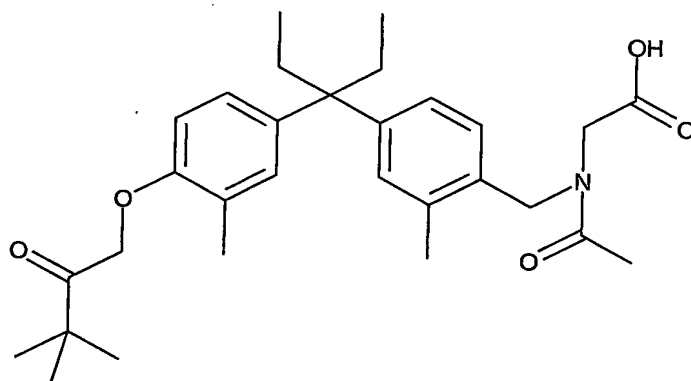
15

CF)

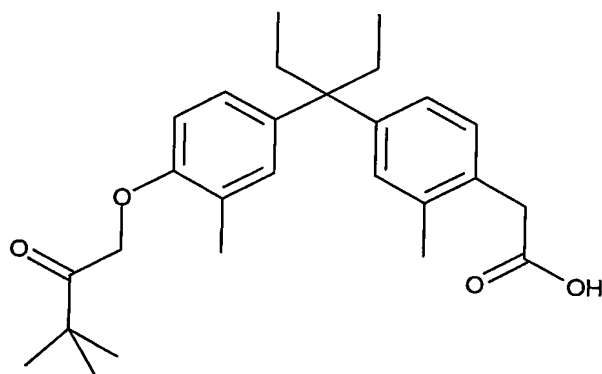
-308-



CI)

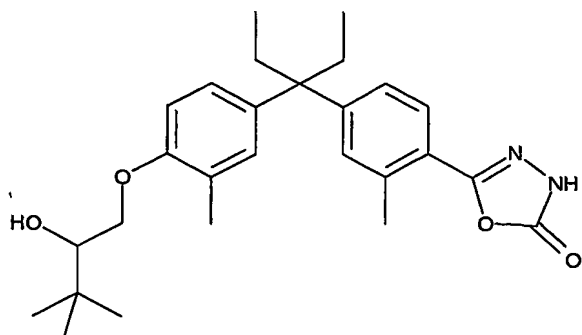


CL)

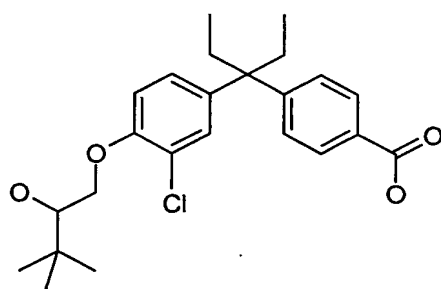


CM)

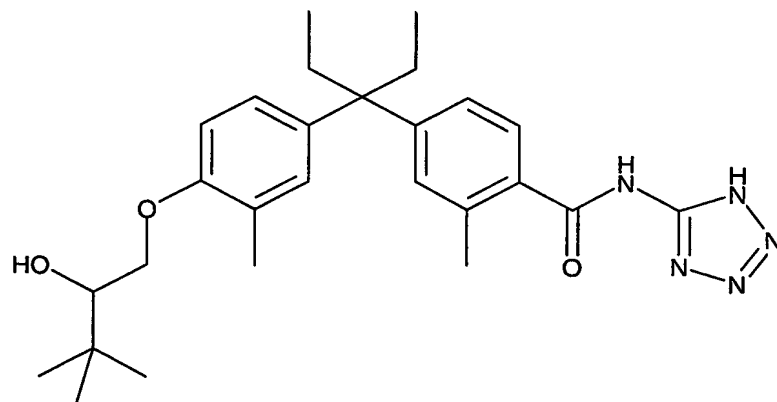
-309-



CN)

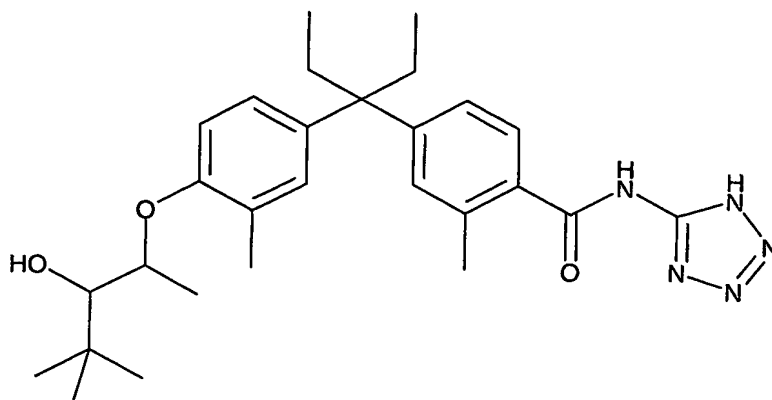


CP)

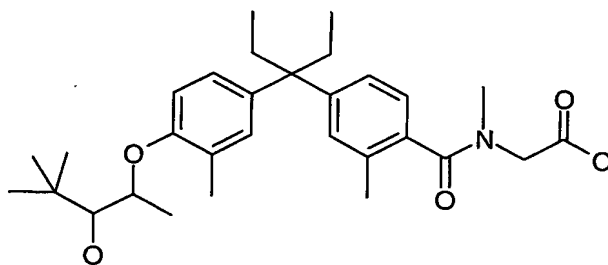


CQ)

-310-

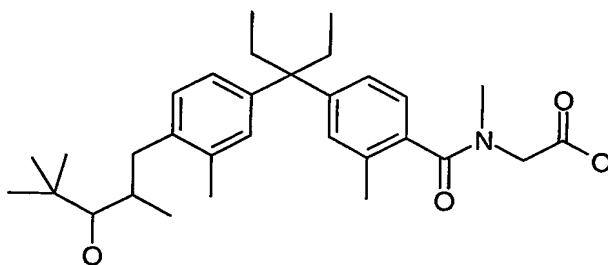


CR)

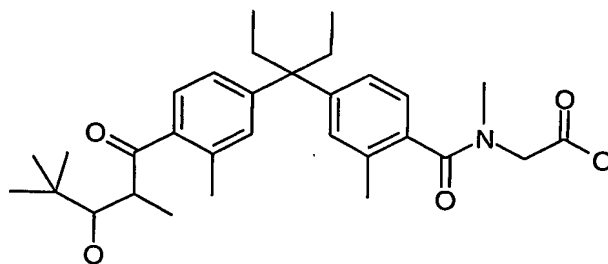


5

CS)

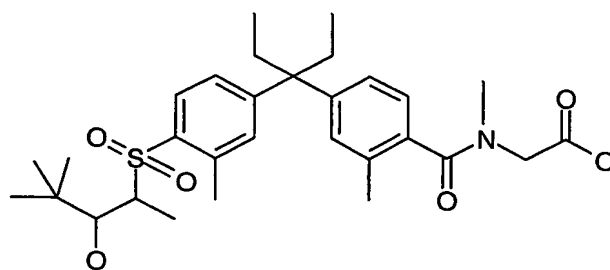


CT)



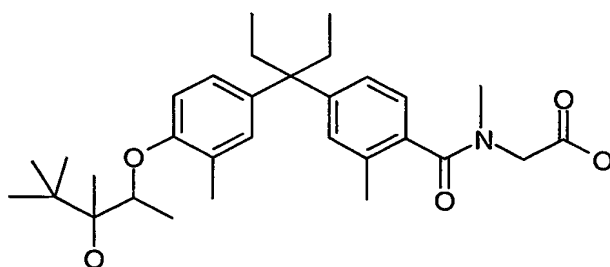
CU)

-311-

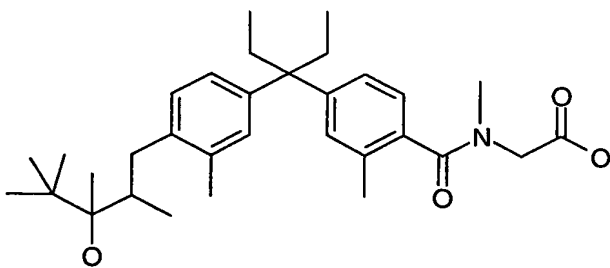


5

CV)

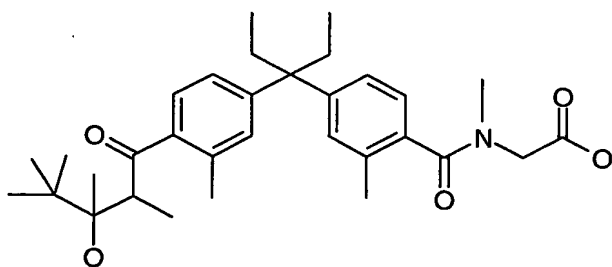


CW)



10

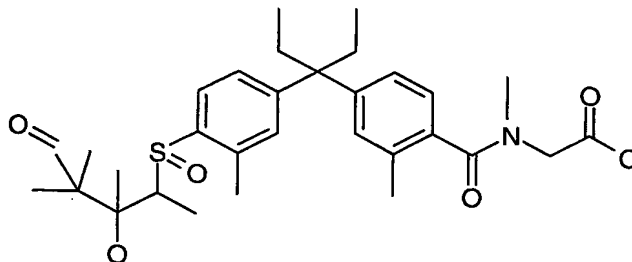
CX)



or

-312-

CY)

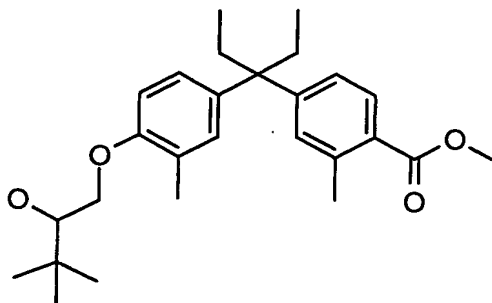


- 5 9. . A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of compounds C-1 to C-55 or a pharmaceutically acceptable salt, solvate, or prodrug derivative thereof:

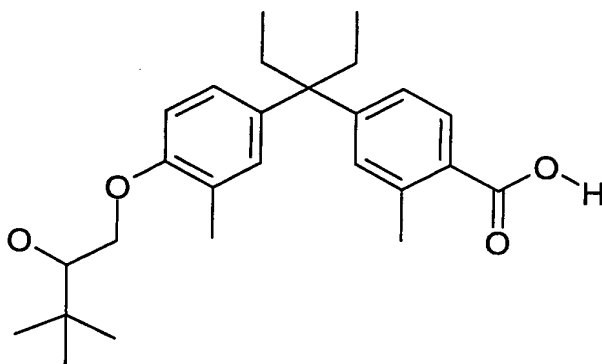
10

-313-

C-1)

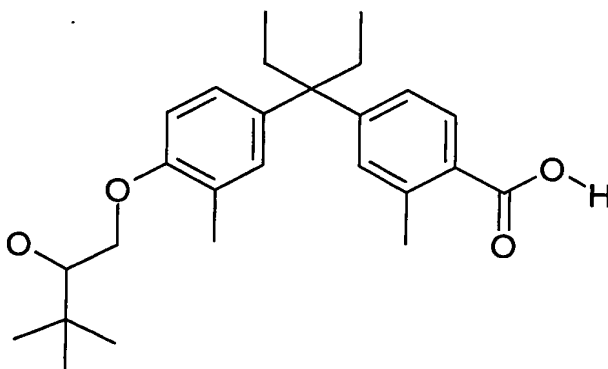


C-2)



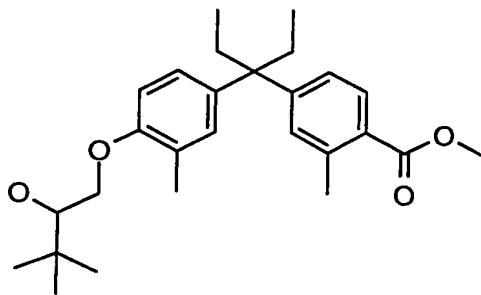
5

C-3)

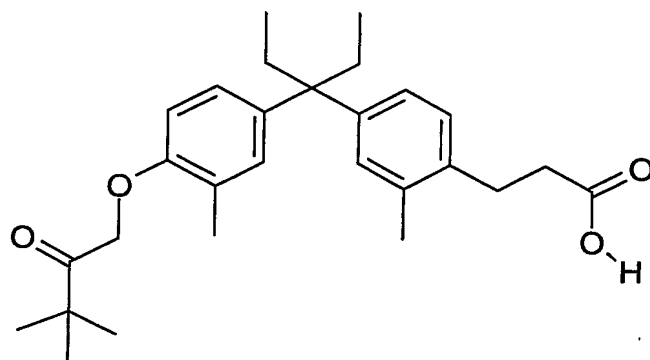


-314-

C-4)

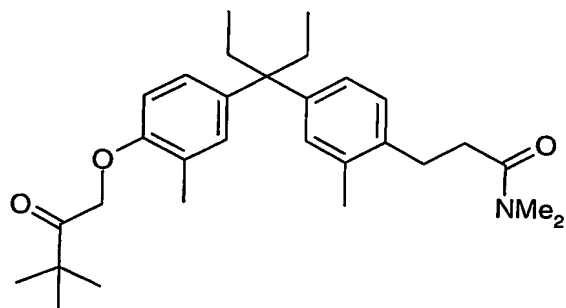


C-6)



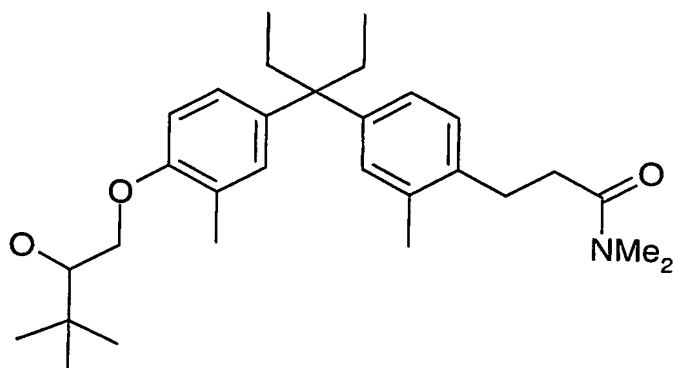
5

C-7)



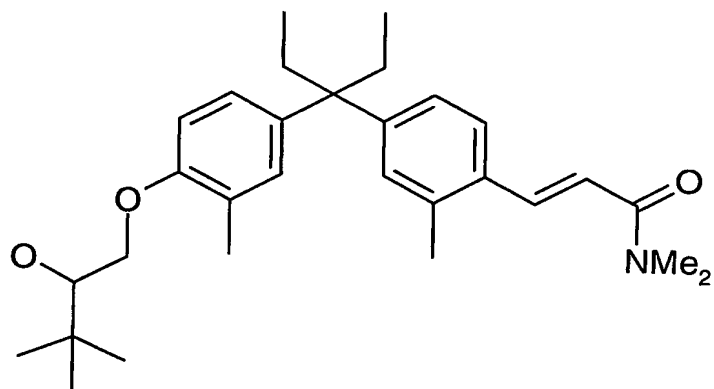
-315-

C-8)

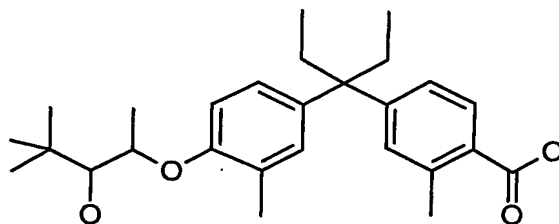


5

C-9)

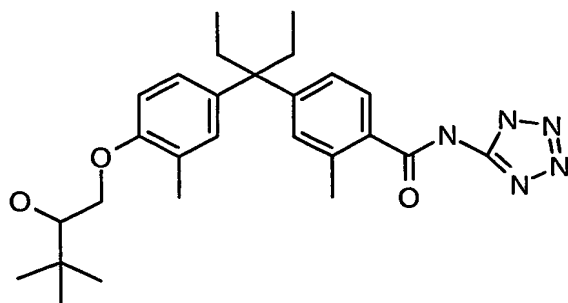


C-10)

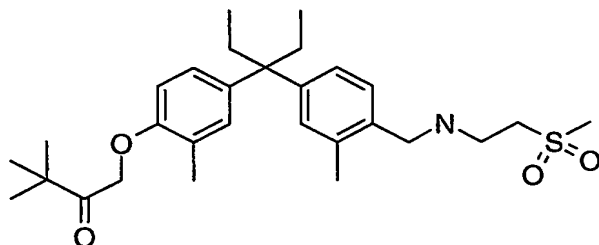


-316-

C-12)

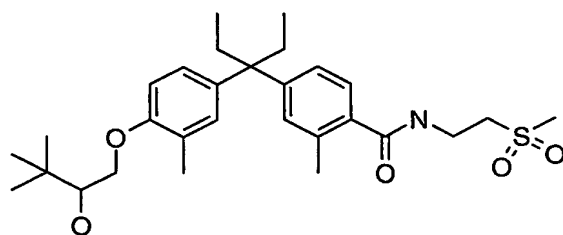


C-13)

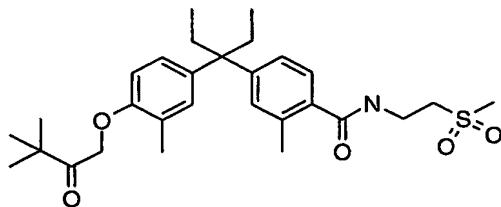


5

C-15)

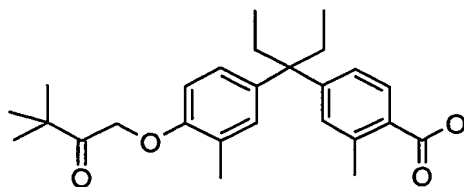


C-16)



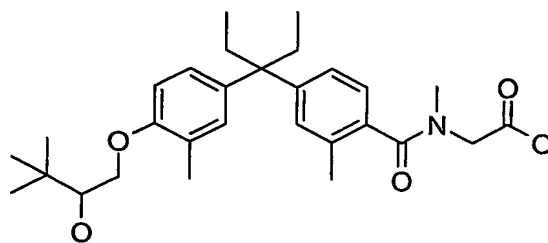
10

C-17)

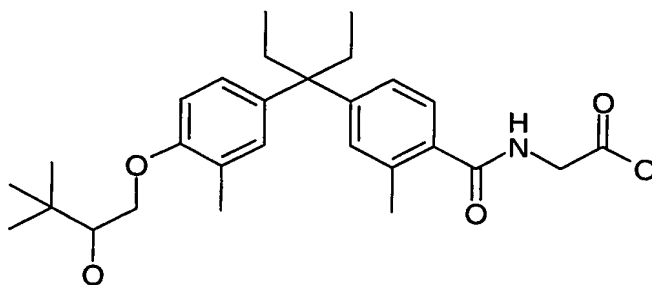


-317-

C-18)

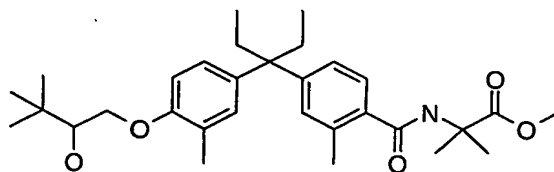


C-19)

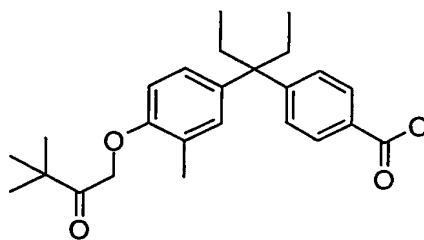


5

C-20)



C-21)

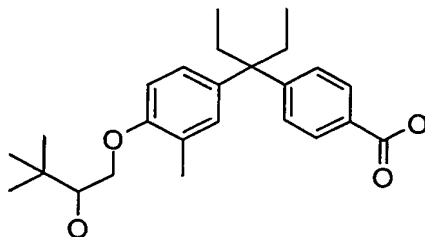


10

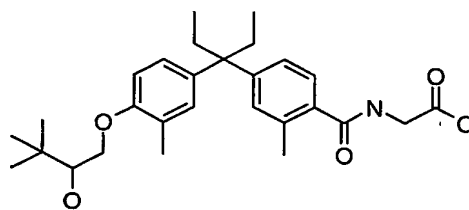
15

-318-

C-22)

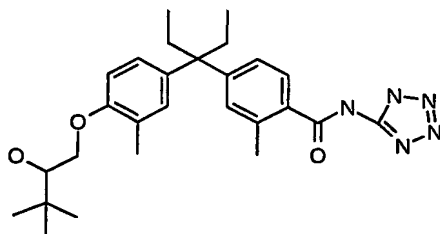


C-25)

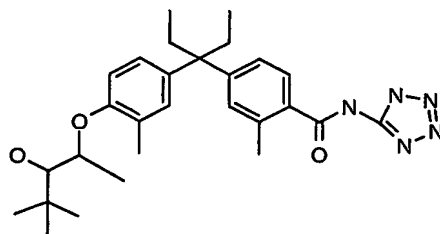


5

C-26)



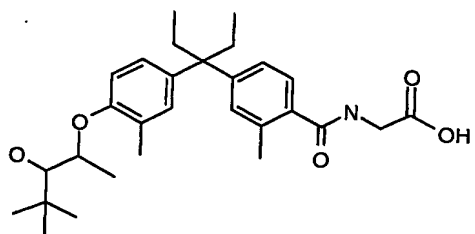
C-29)



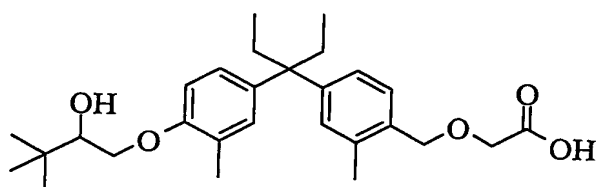
10

-319-

C-31)

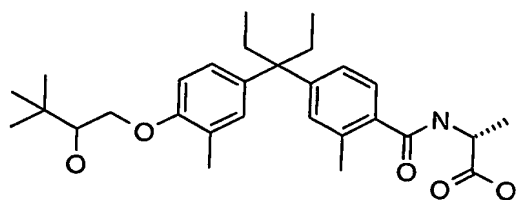


C-35)



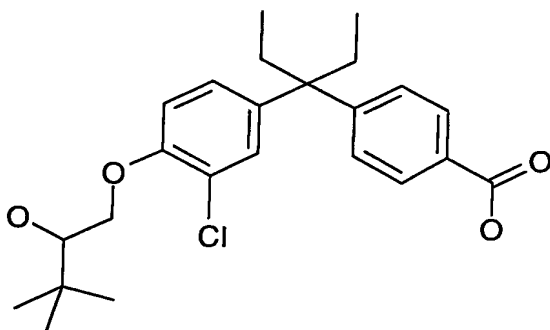
5

C-36)



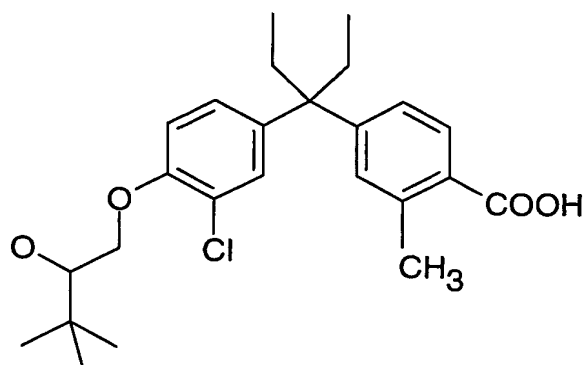
10

C-39)

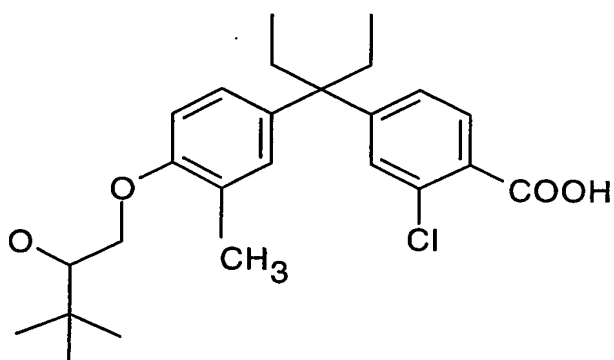


-320-

C-42)

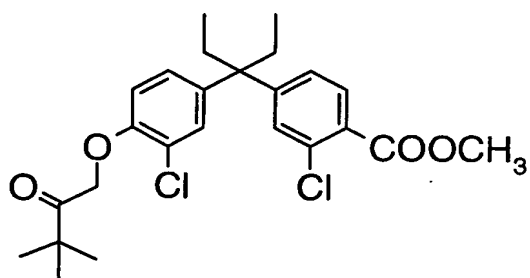


C-43)



5

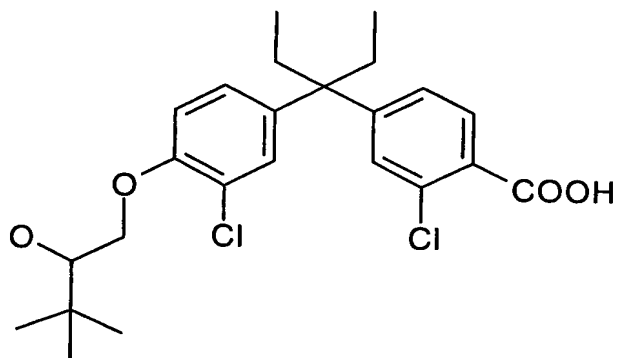
C-44)



10

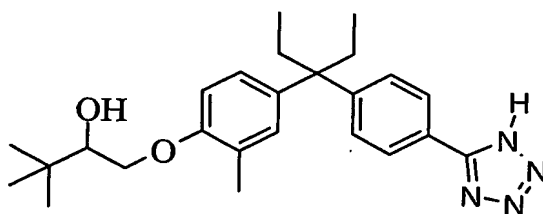
-321-

C-45)

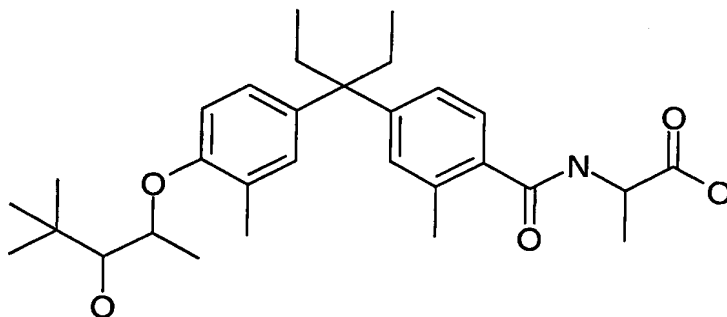


5

C-48)

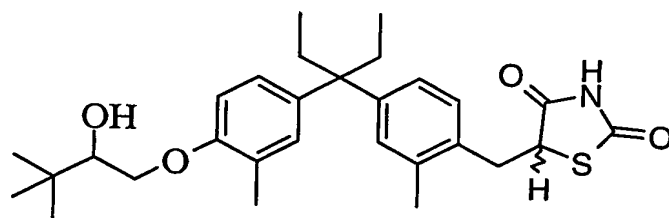


C-52)



10

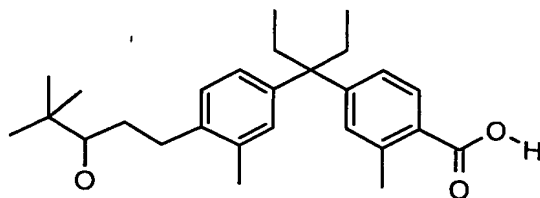
C-54)



or

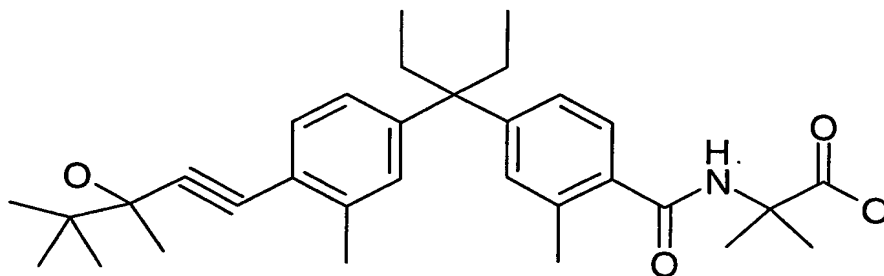
-322-

C-55)

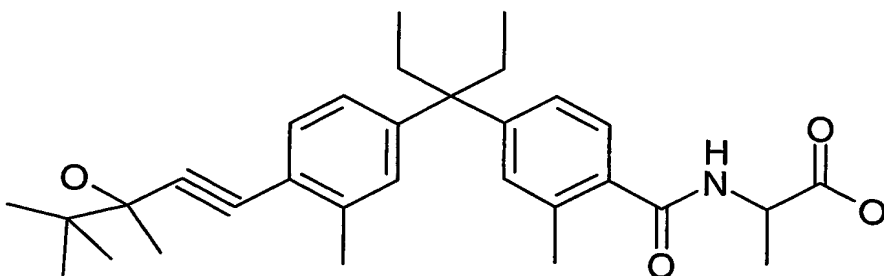


10. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of compounds (TBU-1) to (TBU-86) or a pharmaceutically acceptable salt, solvate, or prodrug derivative thereof:

TBU-1)

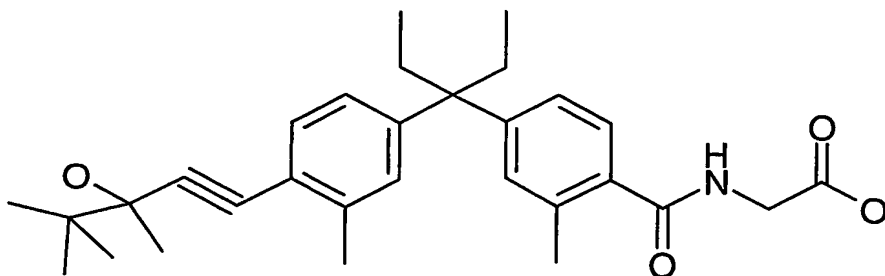


TBU-2)



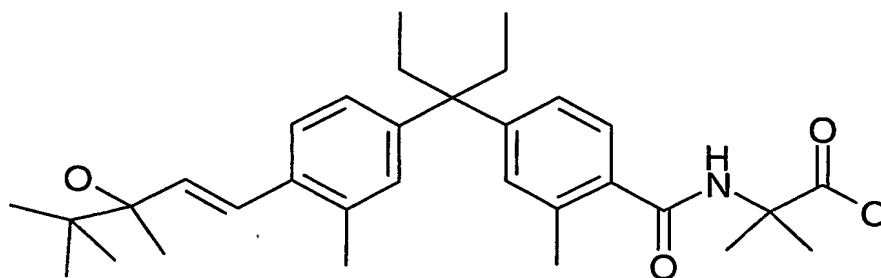
10

TBU-3)



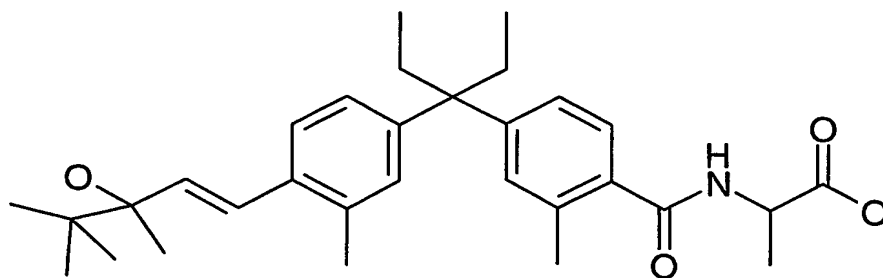
-323-

TBU-4)

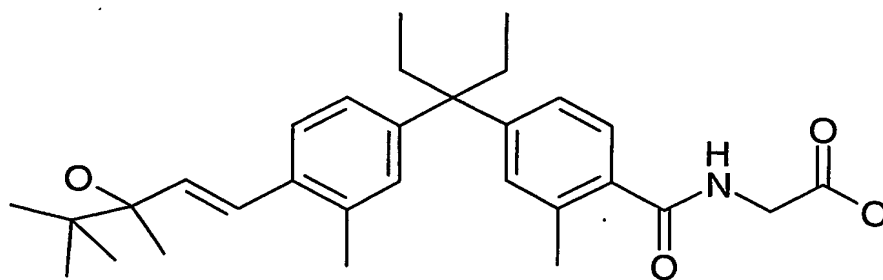


5

TBU-5)

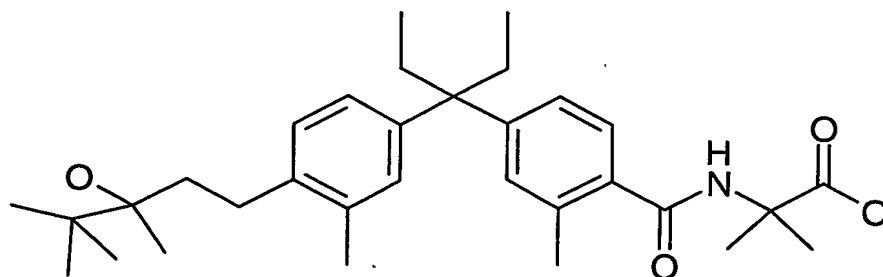


TBU-6)



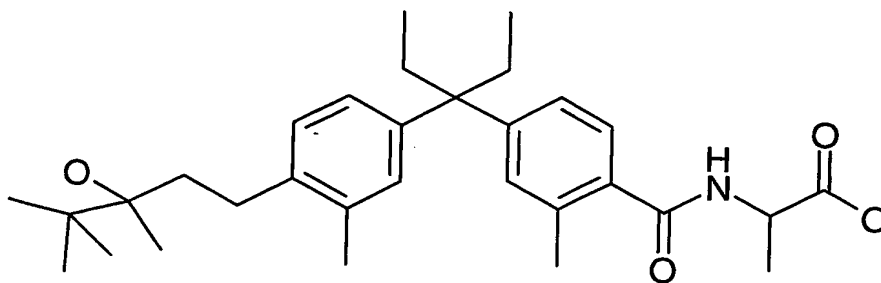
10

TBU-7)

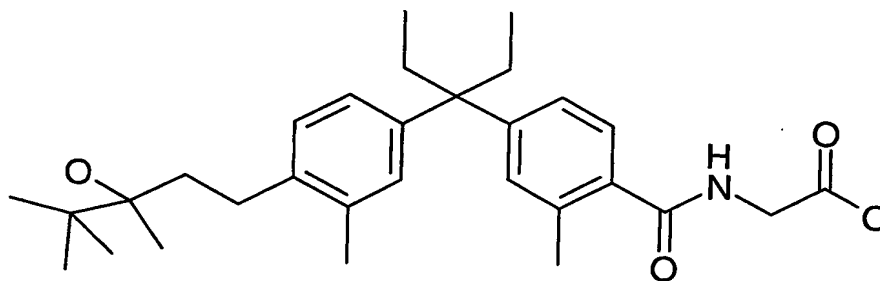


-324-

TBU-8)

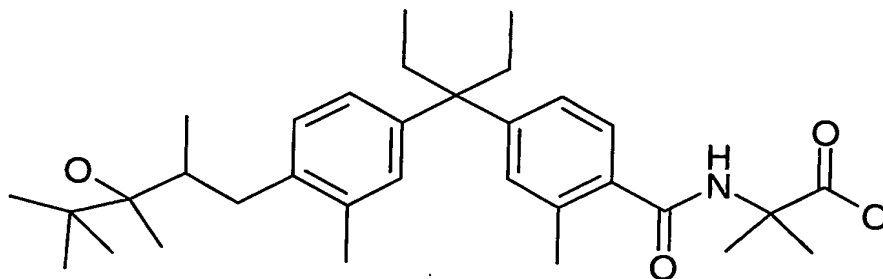


TBU-9)

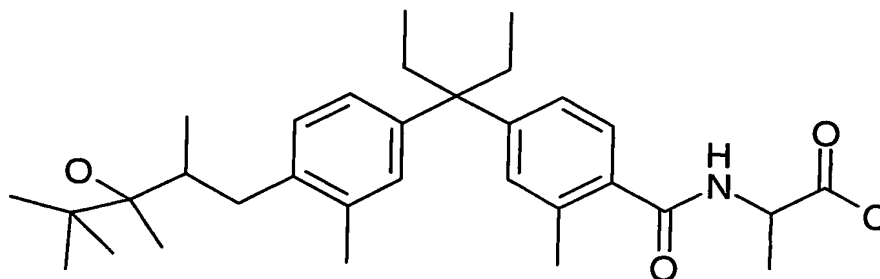


5

TBU-10)

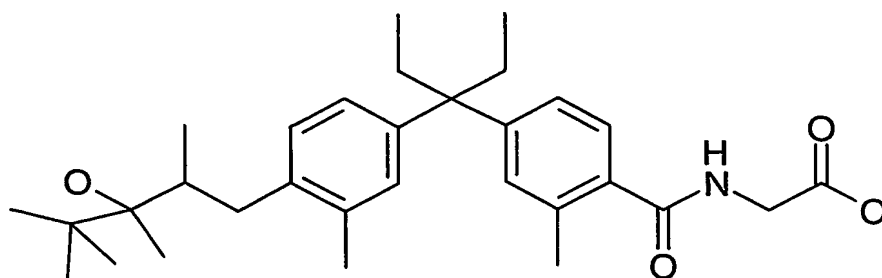


TBU-11)



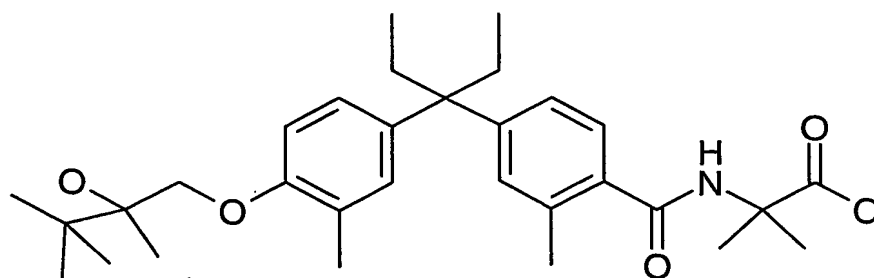
-325-

TBU-12)

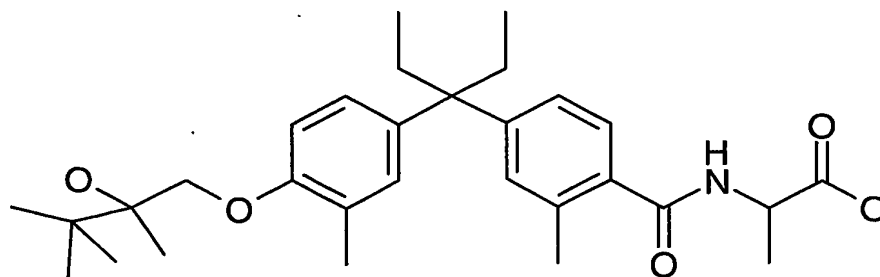


5

TBU-13)

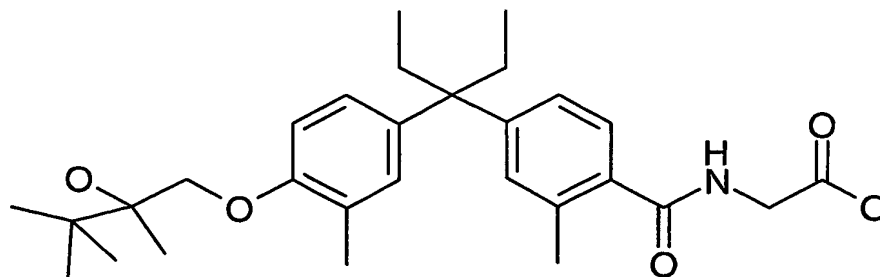


TBU-14)



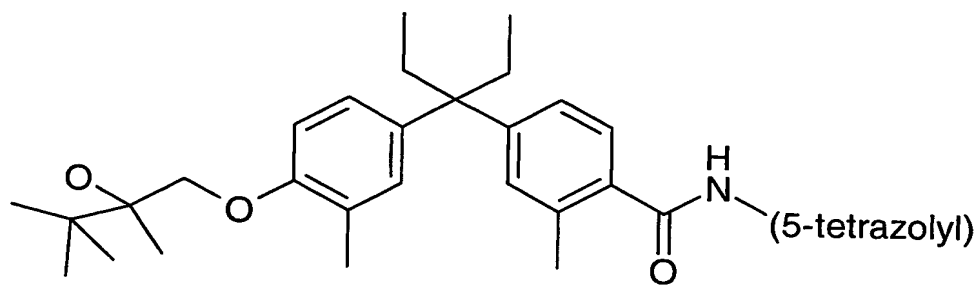
10

TBU-15)

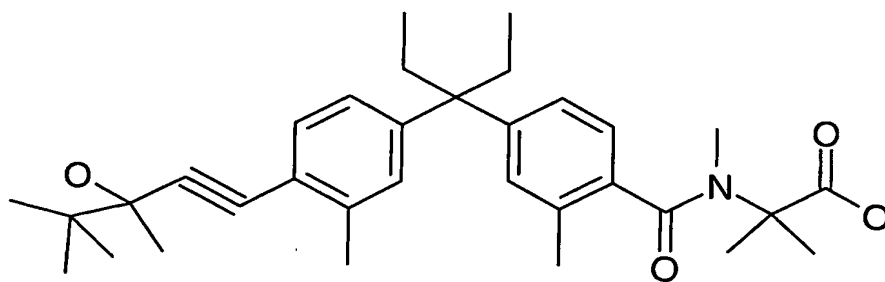


-326-

TBU-16)

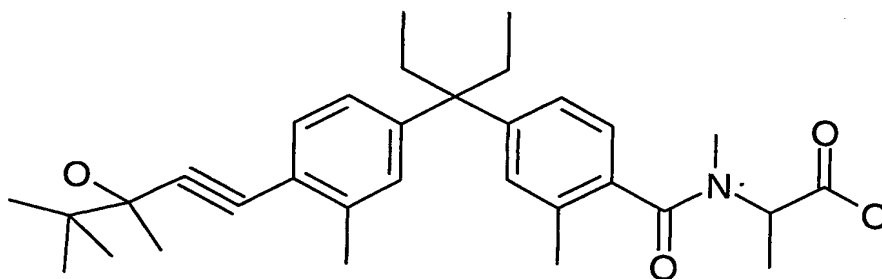


TBU-17)

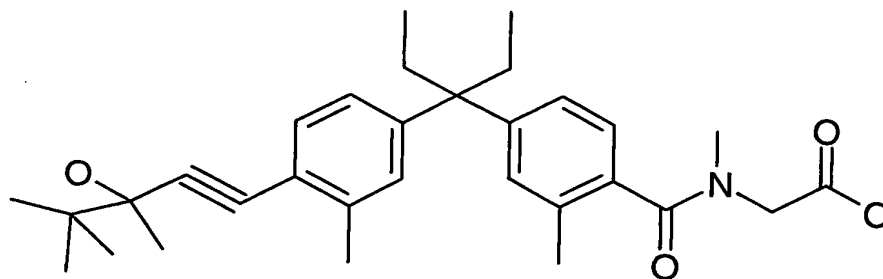


5

TBU-18)

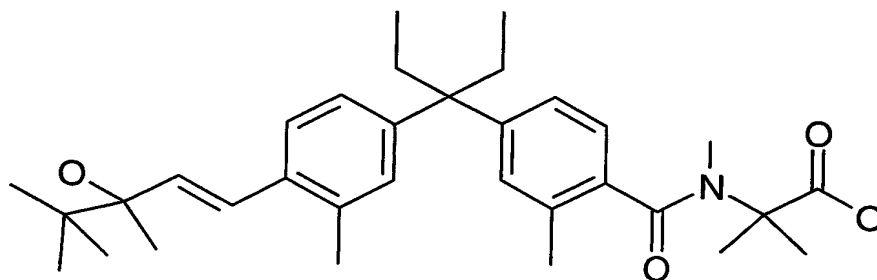


TBU-19)



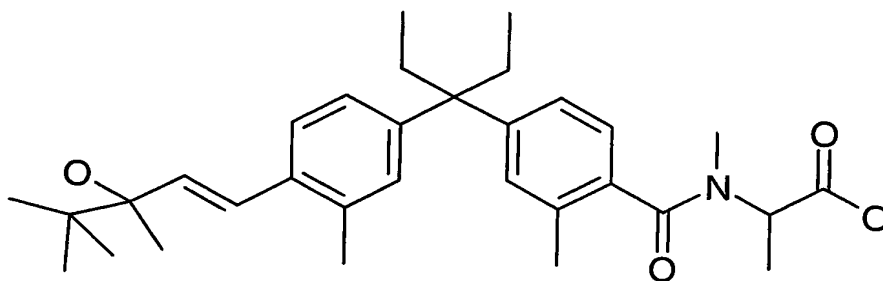
-327-

TBU-20)

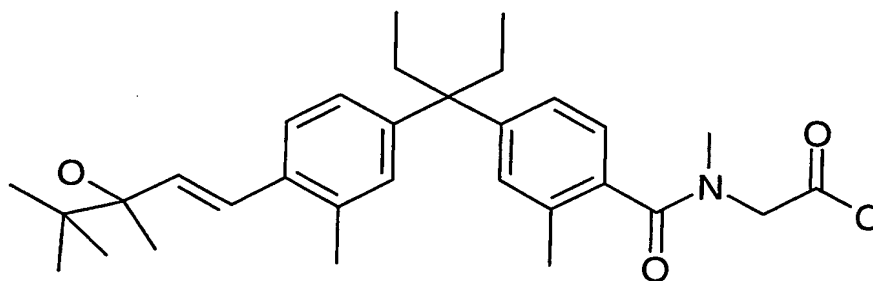


5

TBU-21)

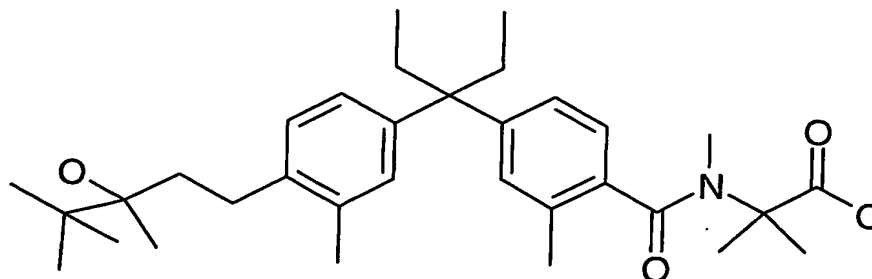


TBU-22)



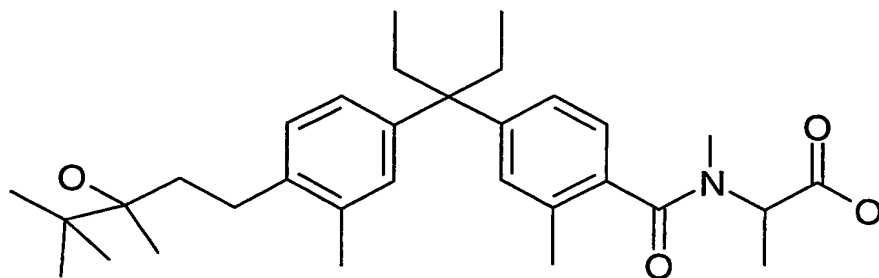
10

TBU-23)

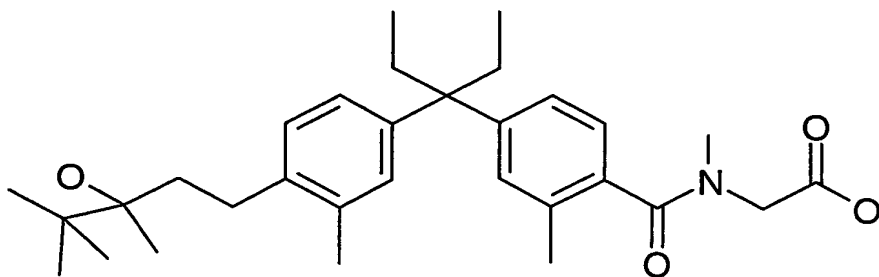


-328-

TBU-24)

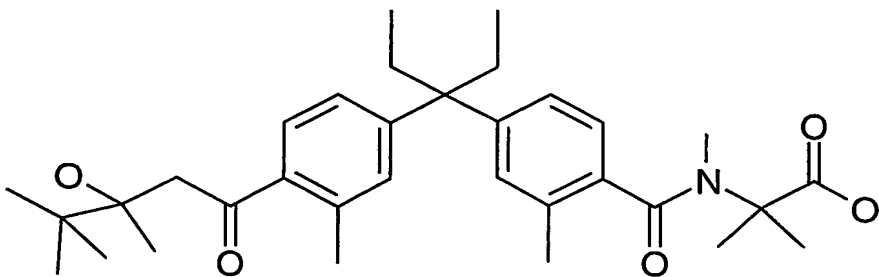


TBU-25)

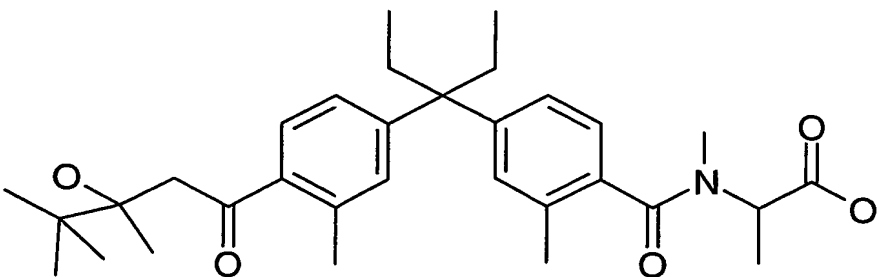


5

TBU-26)

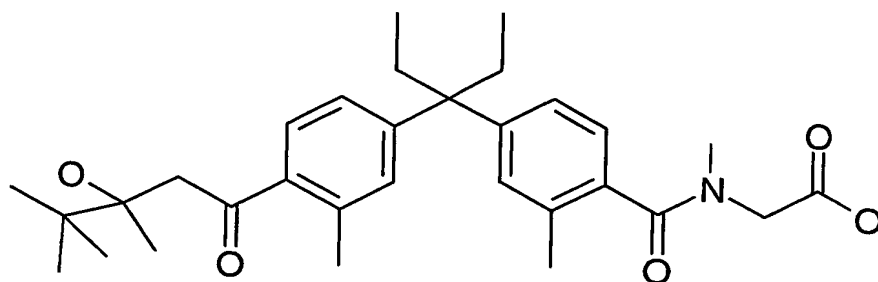


TBU-27)



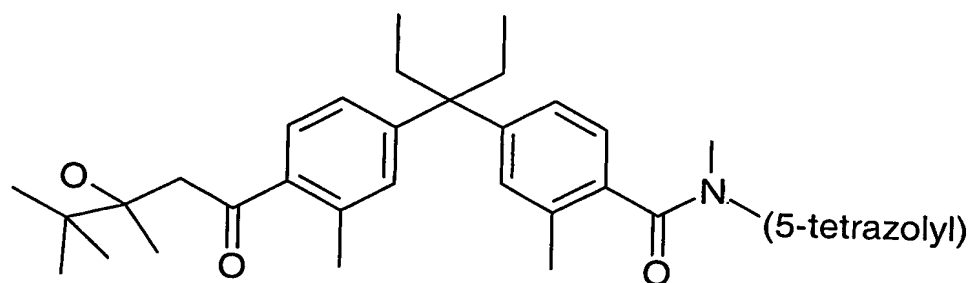
-329-

TBU-28)

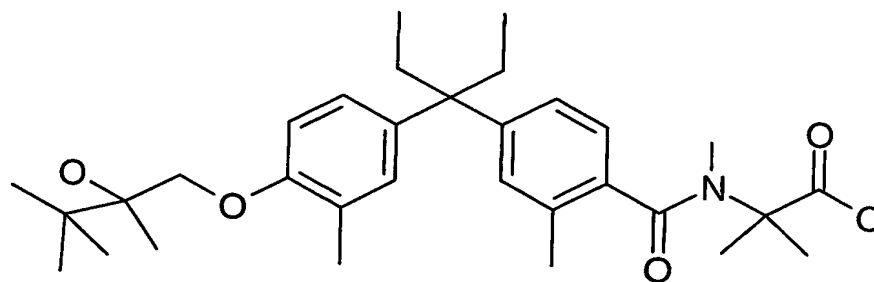


5

TBU-29)

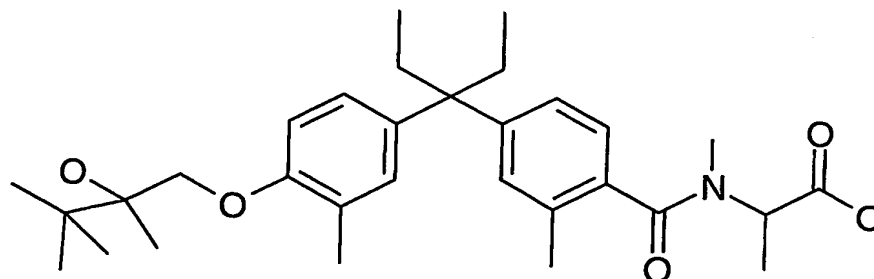


TBU-30)



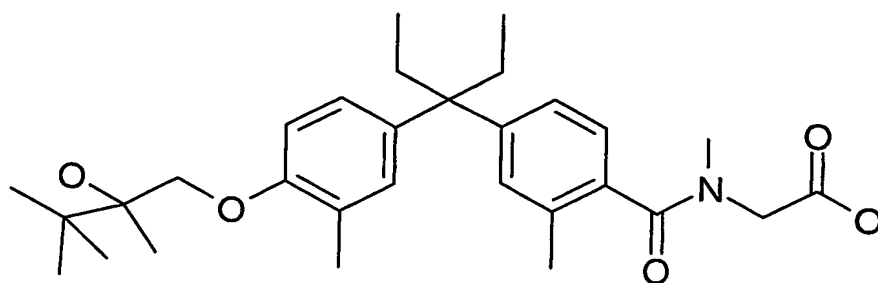
10

TBU-31)

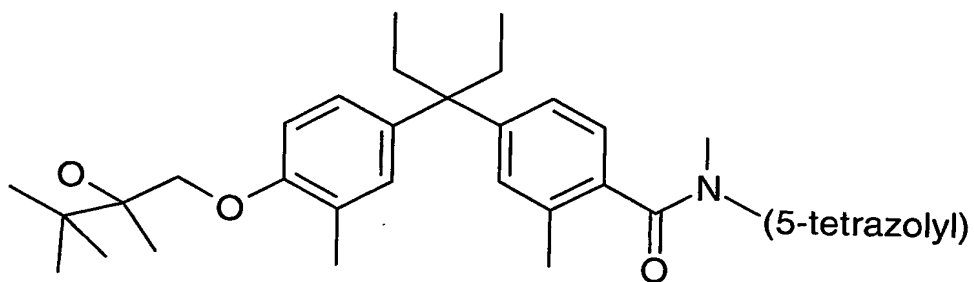


-330-

TBU-32)

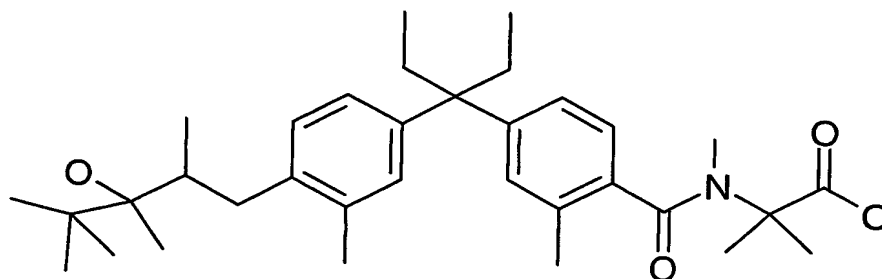


TBU-33)

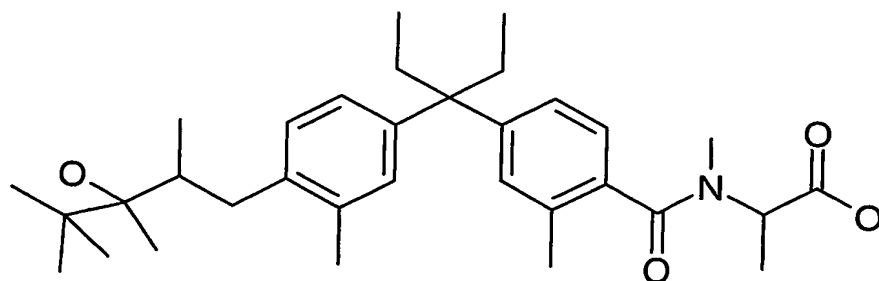


5

TBU-34)

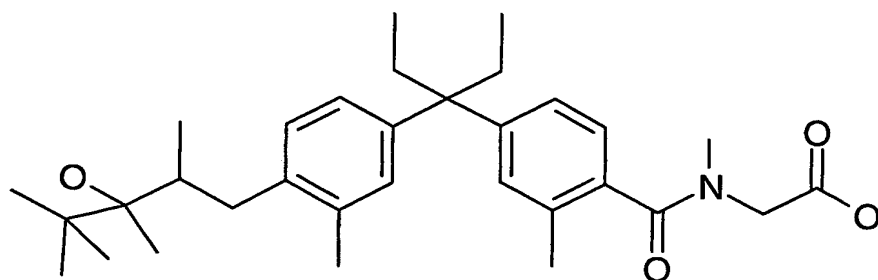


TBU-35)



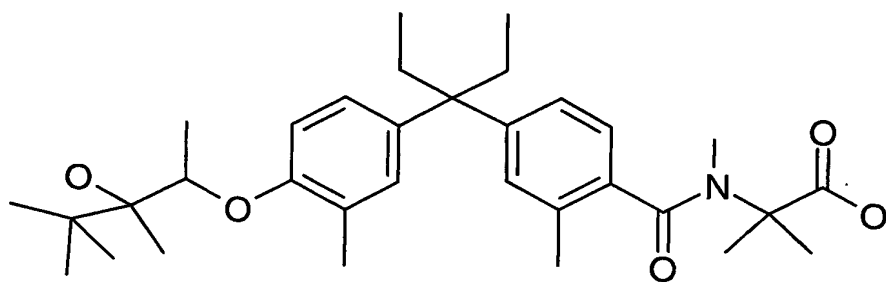
-331-

TBU-36)

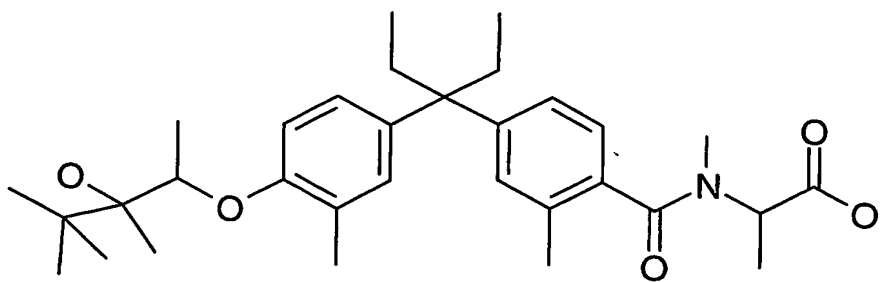


5

TBU-37)

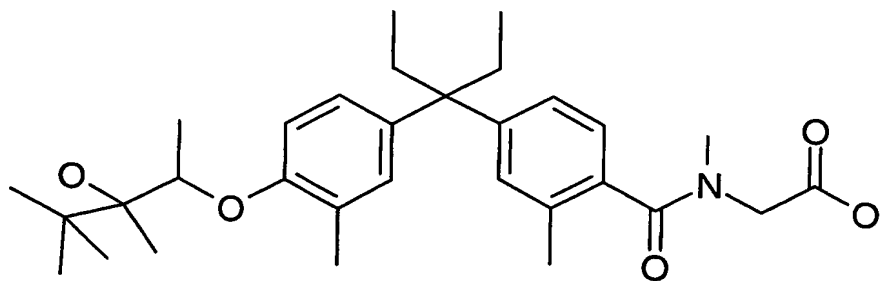


TBU-38)



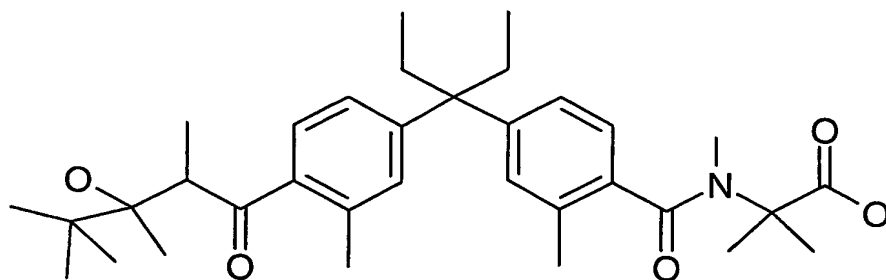
10

TBU-39)

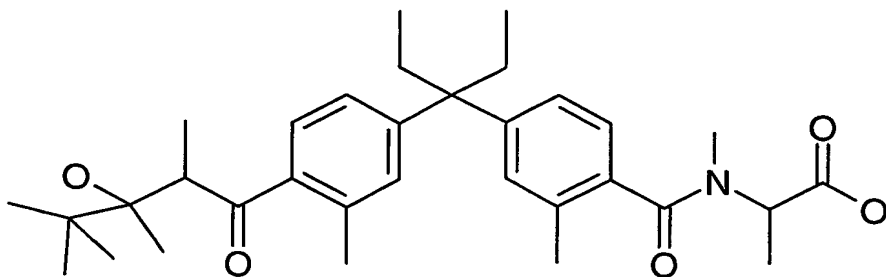


-332-

TBU-40)

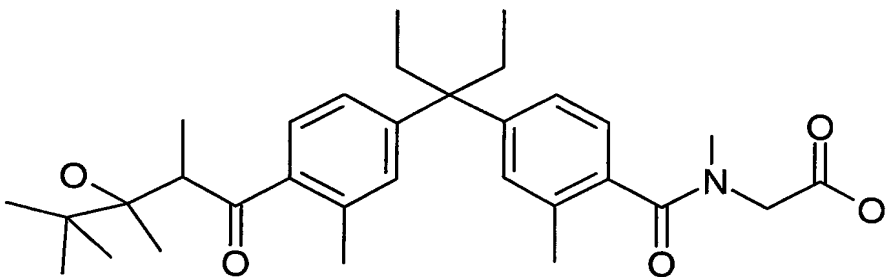


TBU-41)

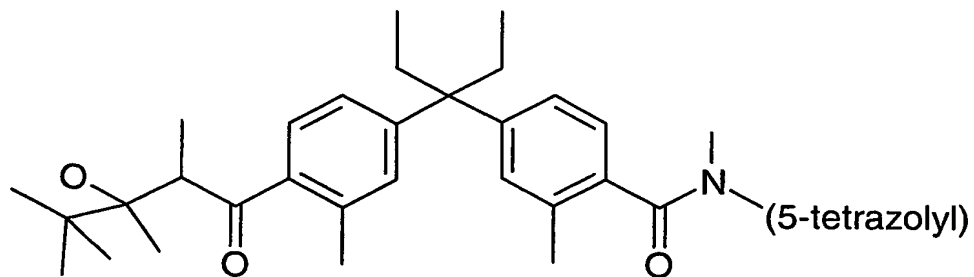


5

TBU-42)

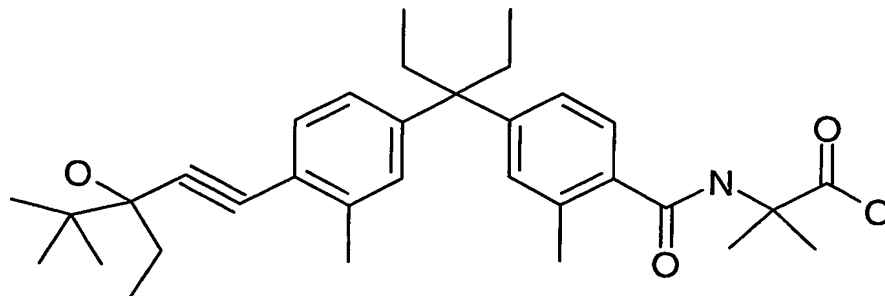


TBU-43)

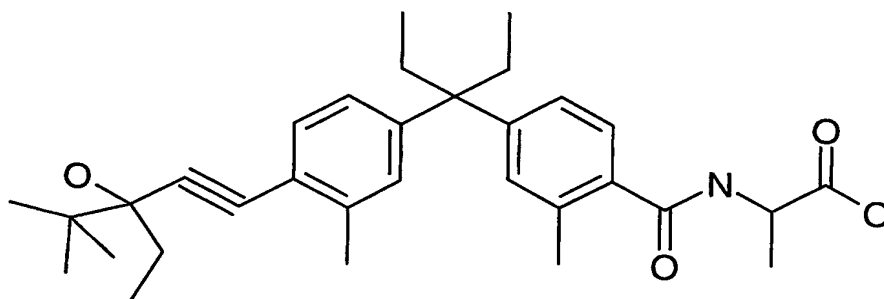


-333-

TBU-44)

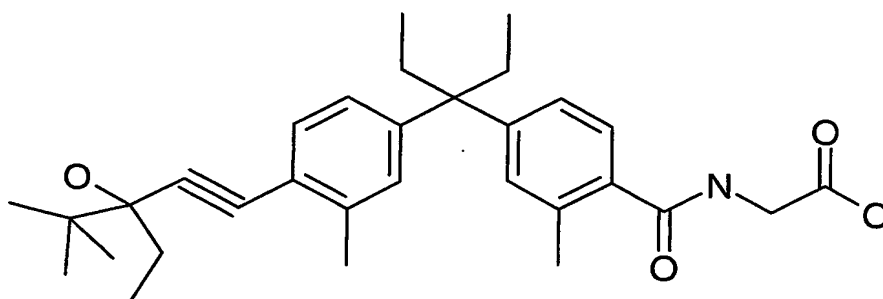


TBU-45)

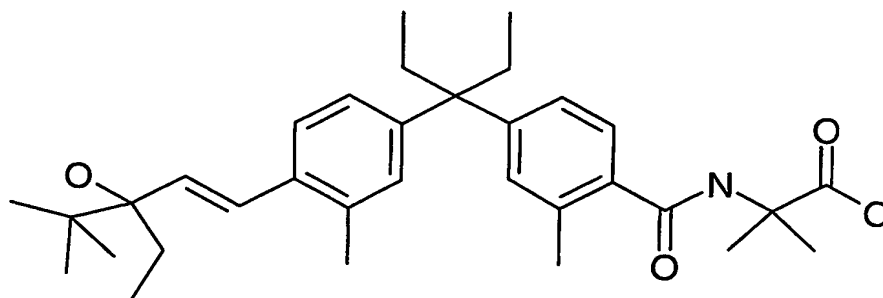


5

TBU-46)

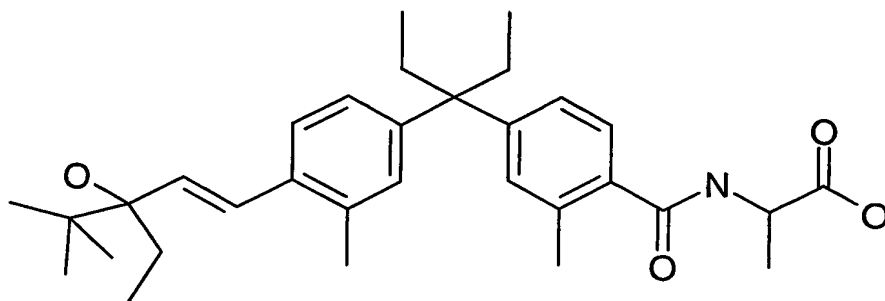


TBU-47)

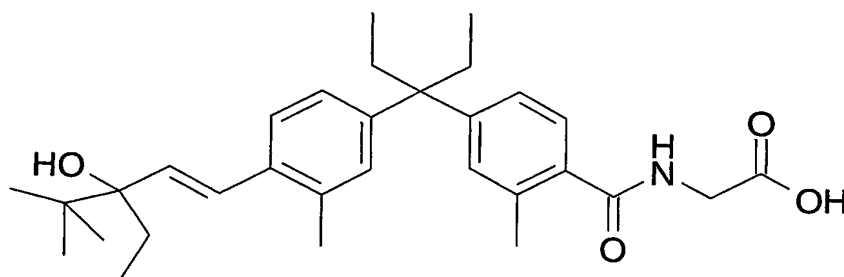


-334-

TBU-48)

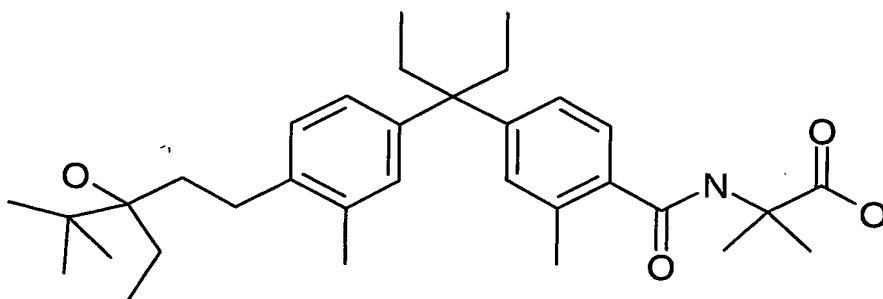


TBU-49)

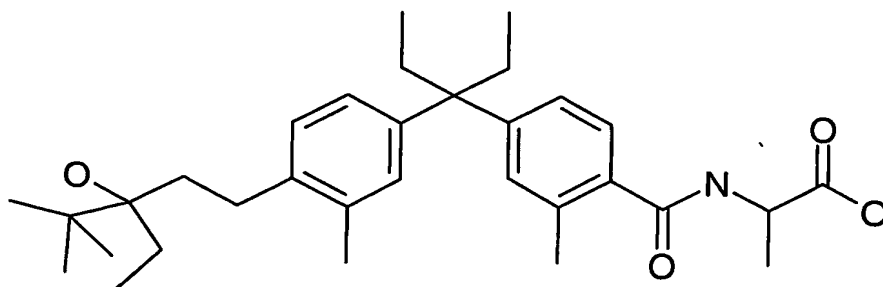


5

TBU-50)

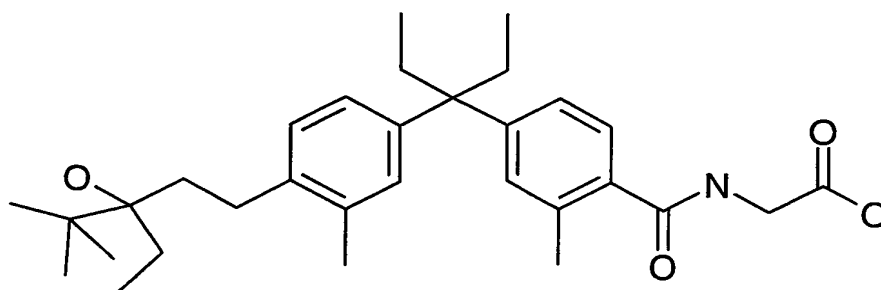


TBU-51)



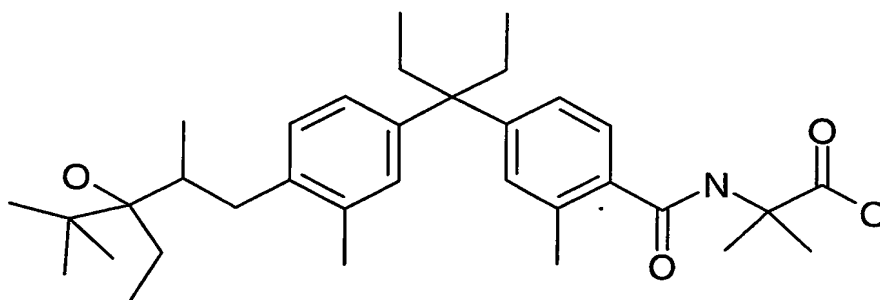
-335-

TBU-52)

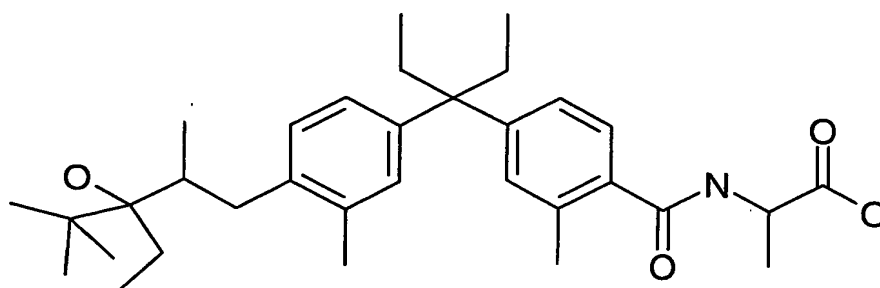


5

TBU-53)



TBU-54)

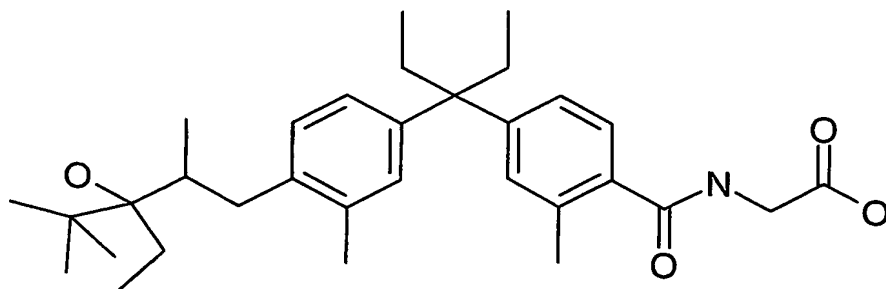


10

15

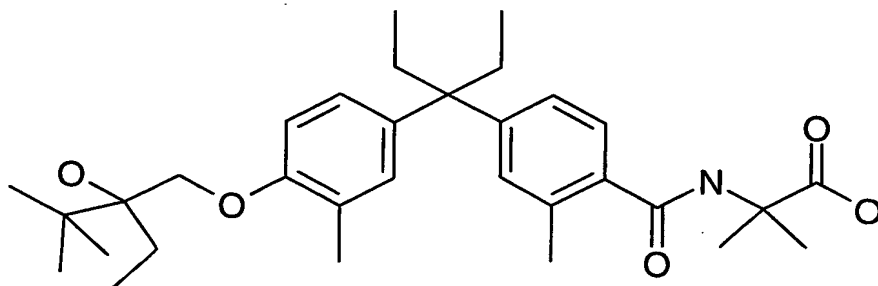
-336-

TBU-55)

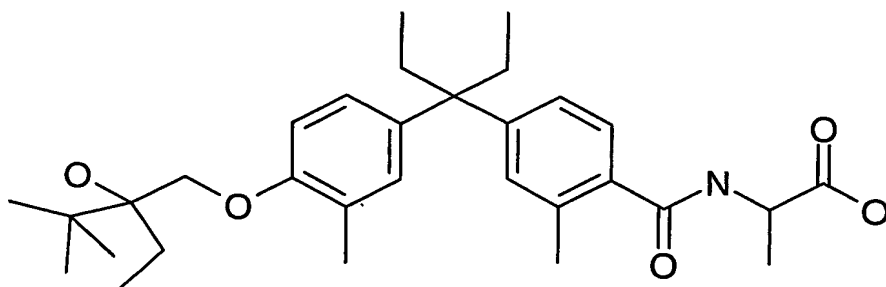


5

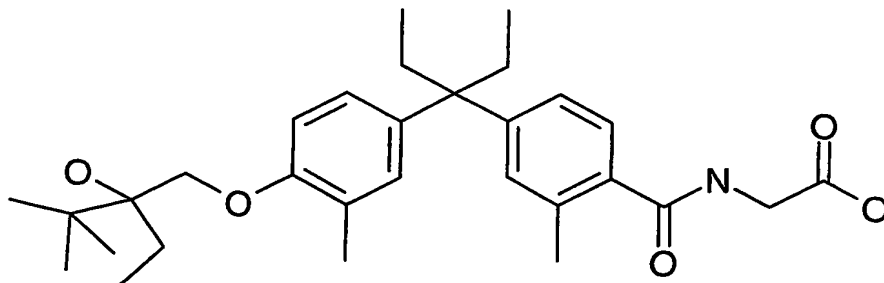
TBU-56)



TBU-57)



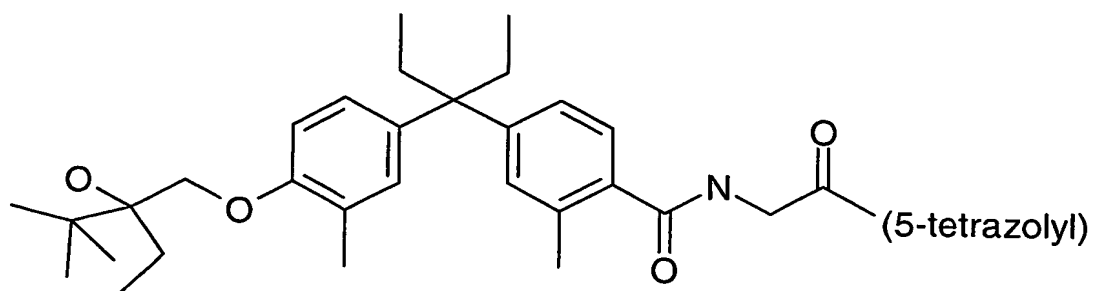
TBU-58)



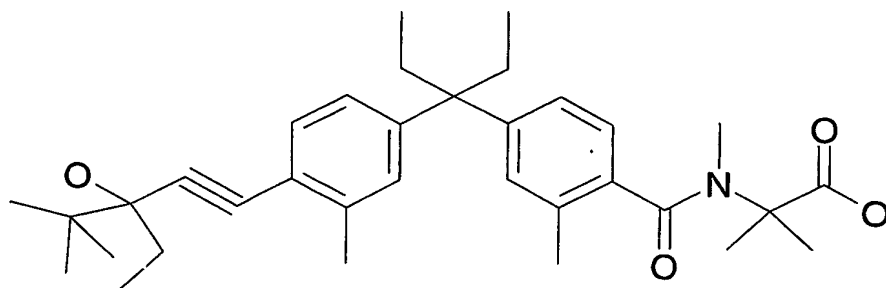
10

-337-

TBU-59)

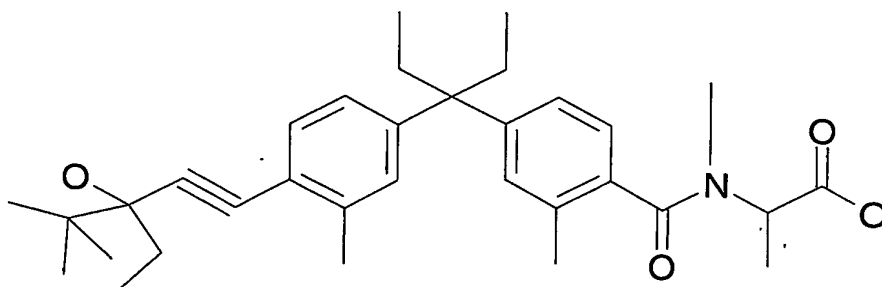


TBU-60)

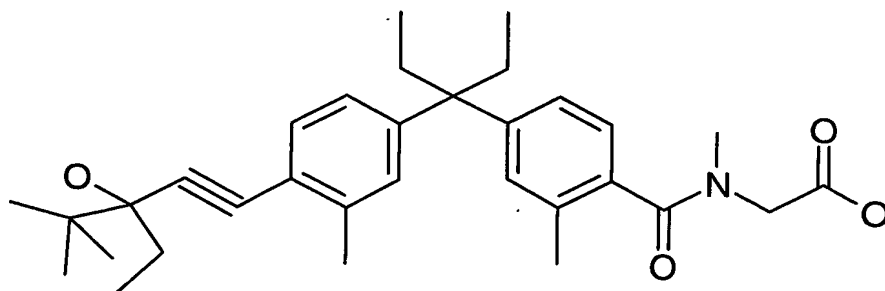


5

TBU-61)

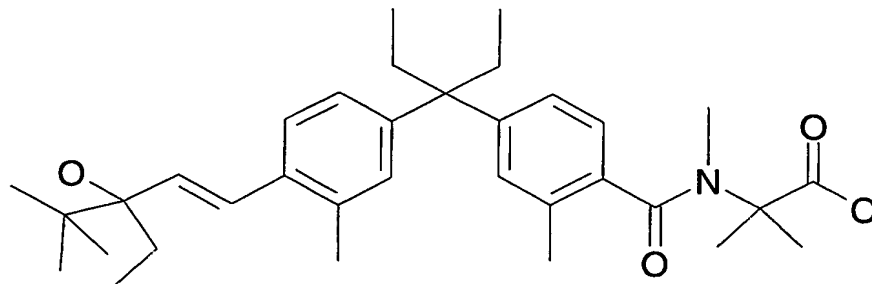


TBU-62)

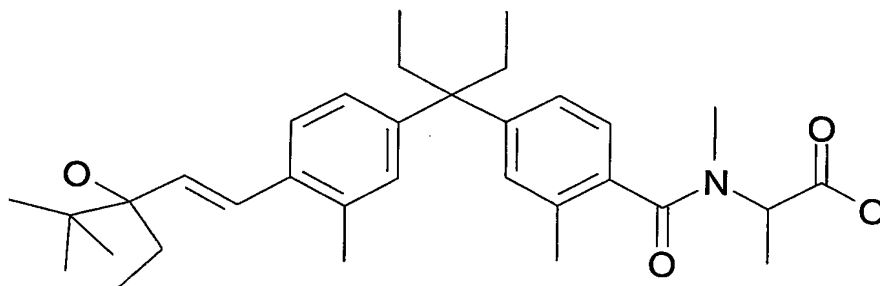


-338-

TBU-63)

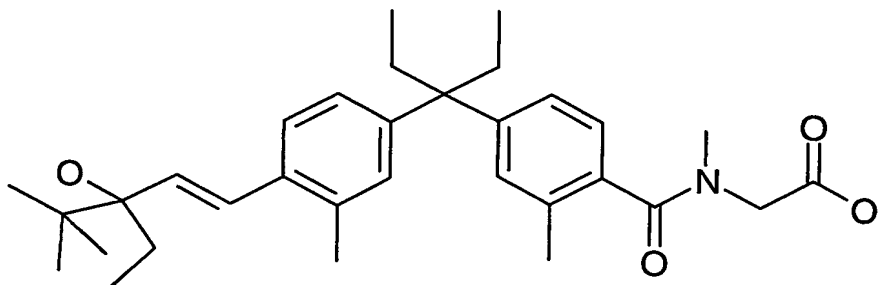


TBU-64)

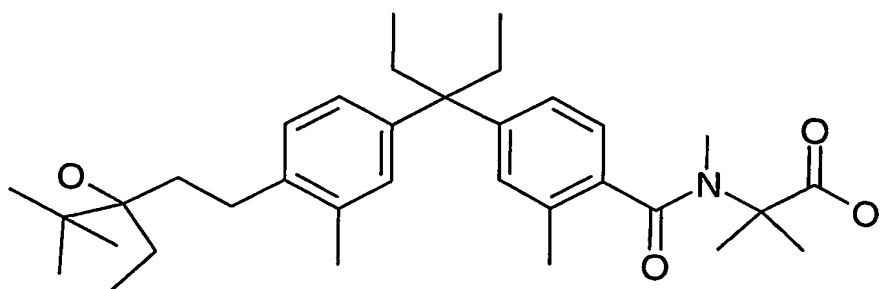


5

TBU-65)



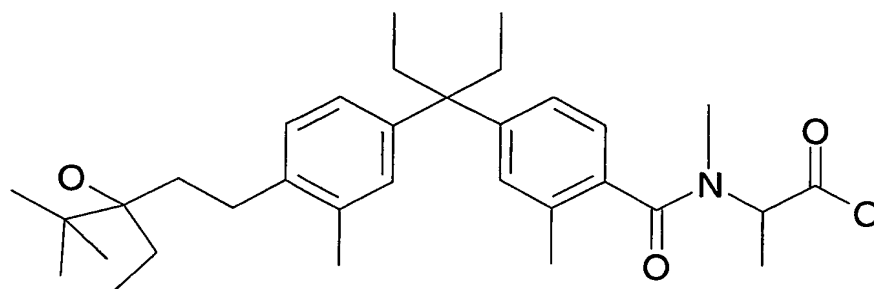
TBU-66)



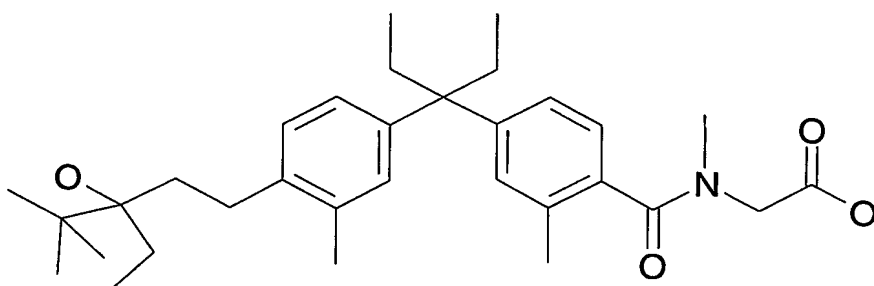
10

TBU-67)

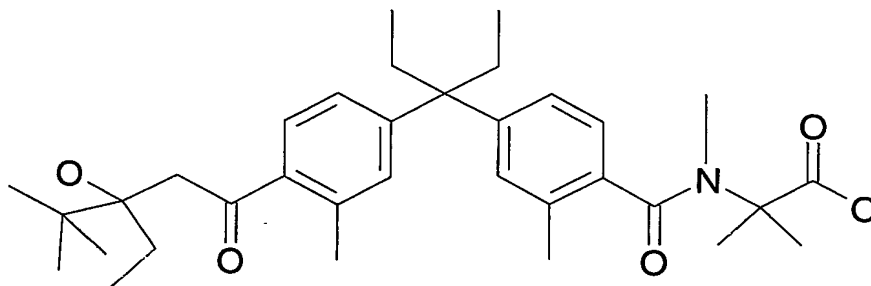
-339-



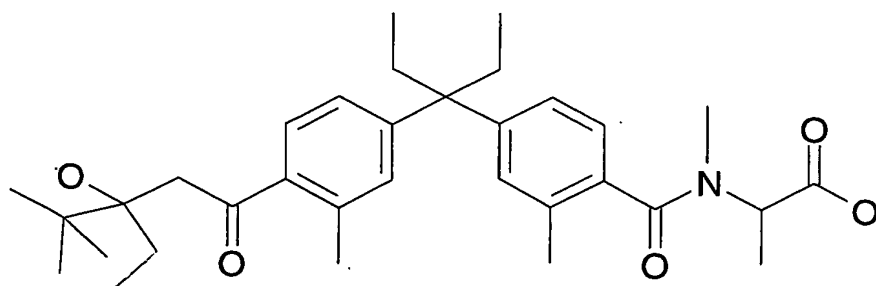
TBU-68)



TBU-69)

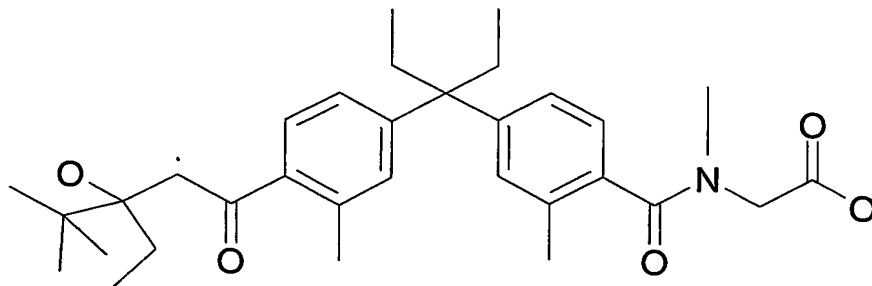


TBU-70)

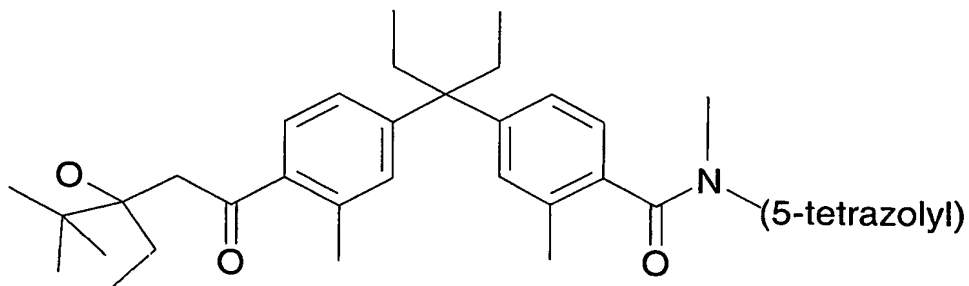


-340-

TBU-71)

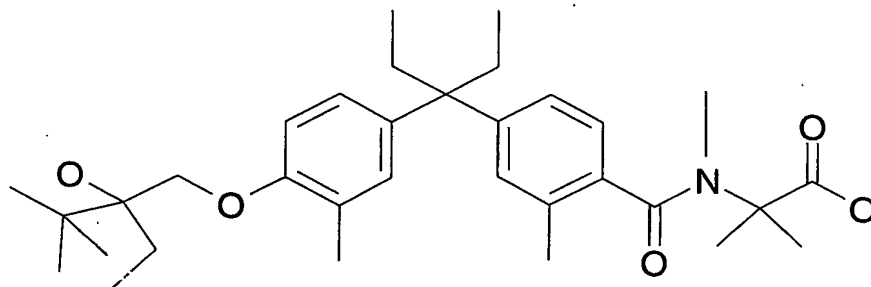


TBU-72)

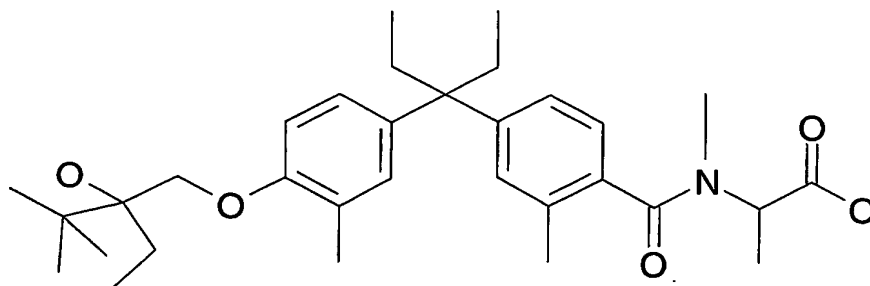


5

TBU-73)



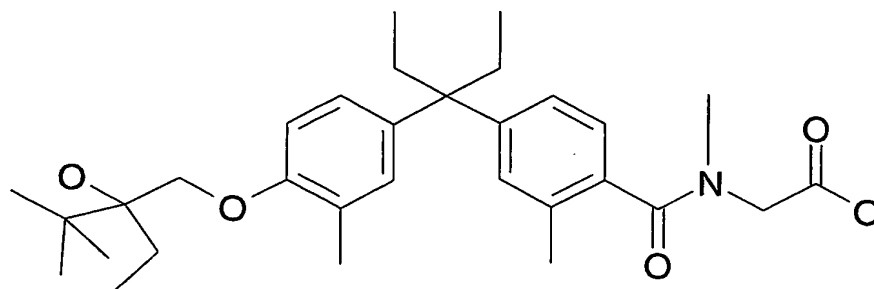
TBU-74)



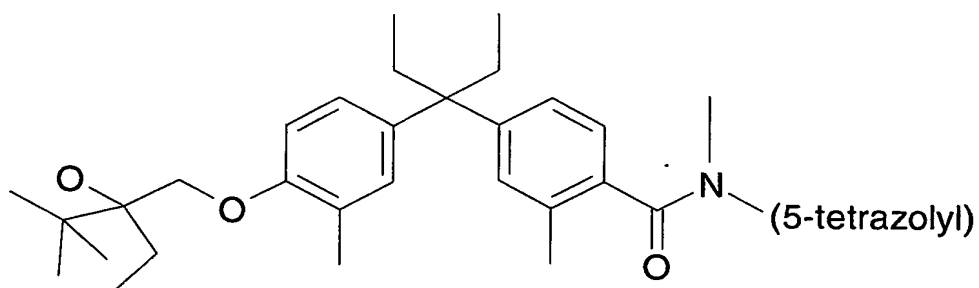
10

TBU-75)

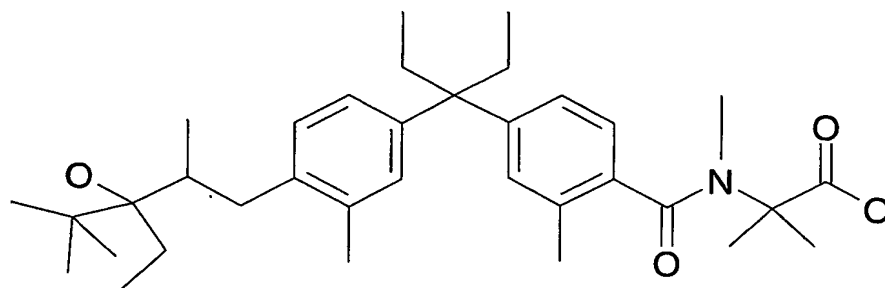
-341-



TBU-76)



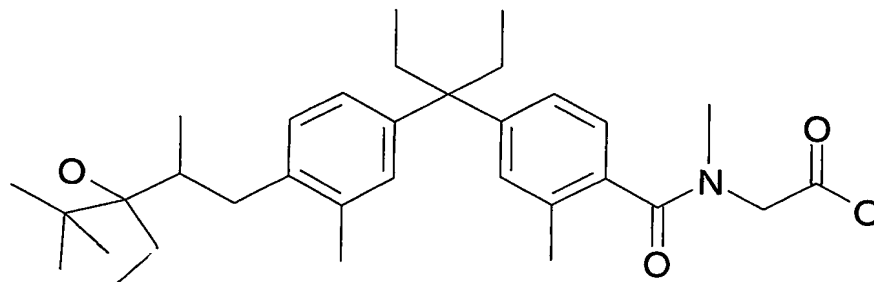
TBU-77)



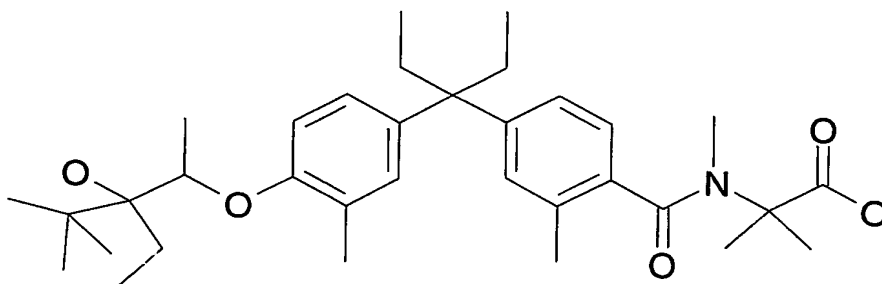
TBU-78)

-342-

TBU-79)

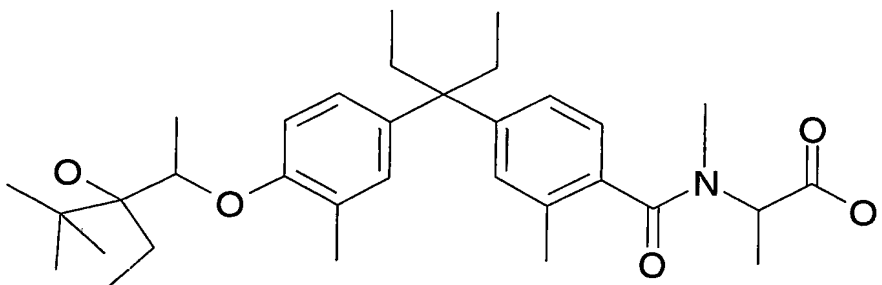


TBU-80)

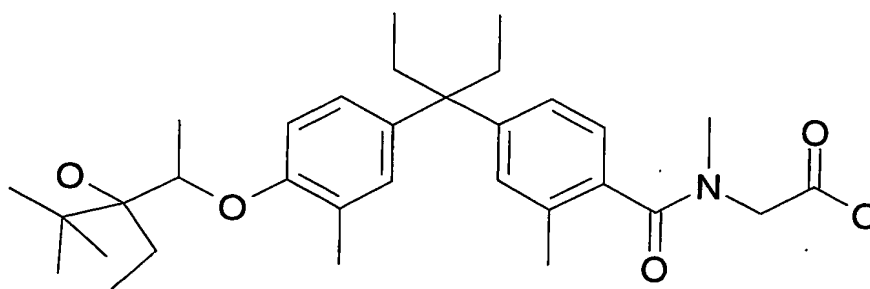


5

TBU-81)



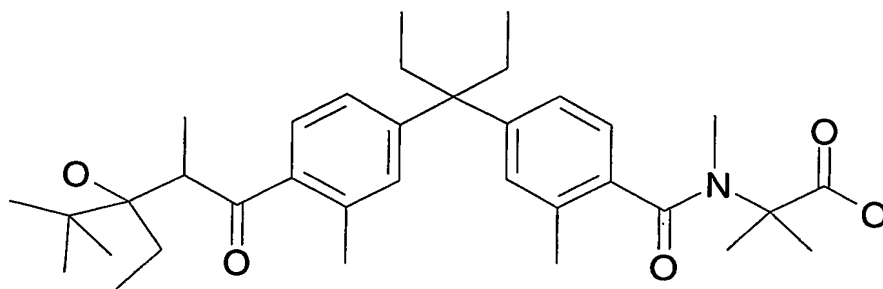
TBU-82)



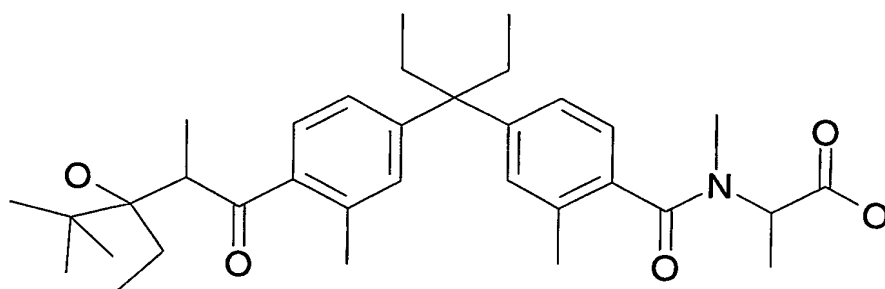
10

TBU-83)

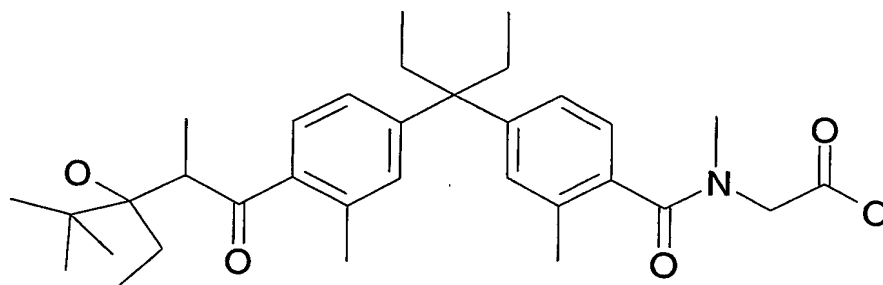
-343-



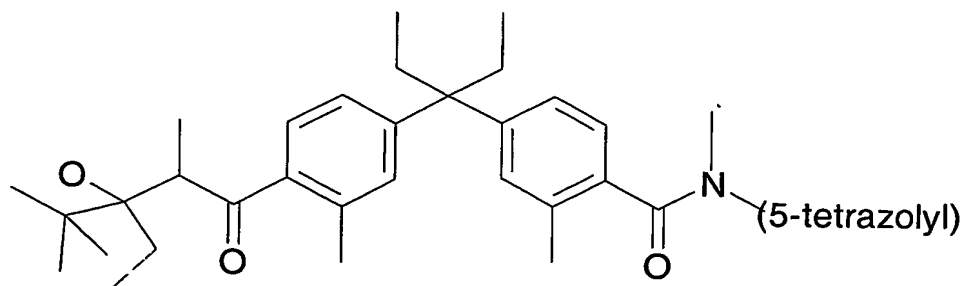
TBU-84)



TBU-85)

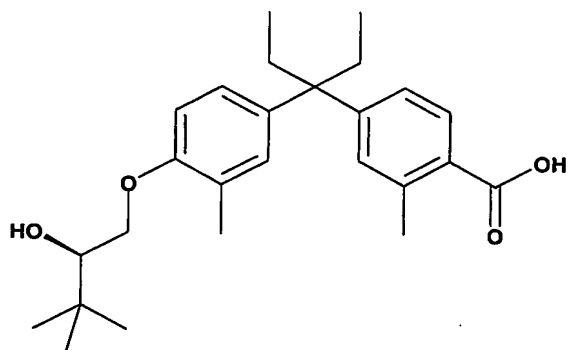


TBU-86)



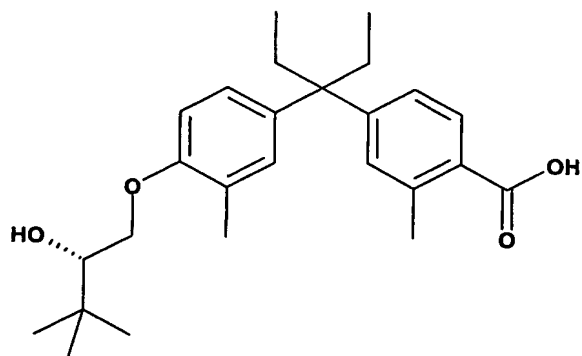
-344-

11. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of compounds represented by the formula:

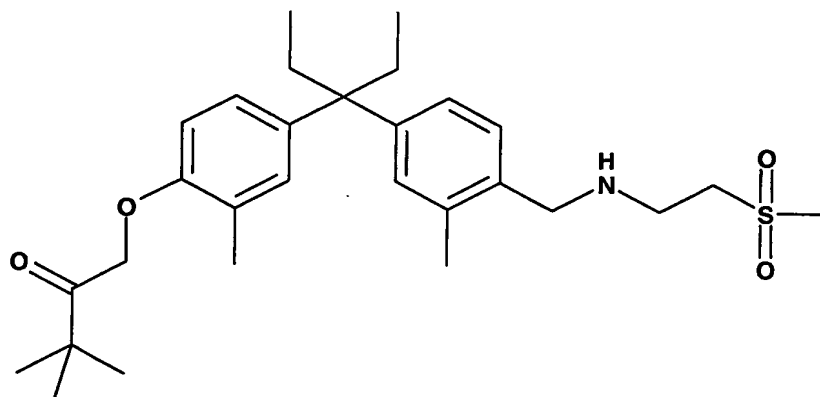


5

or



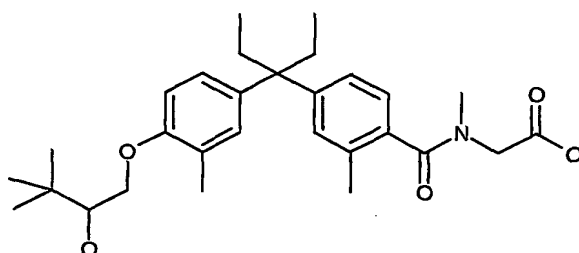
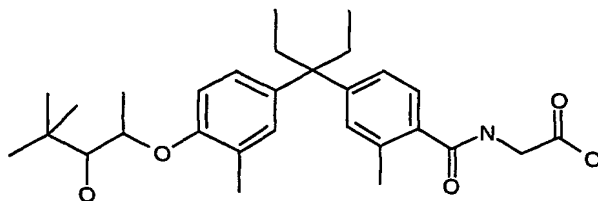
or



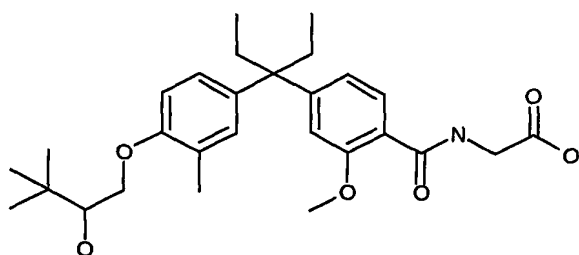
10

-345-

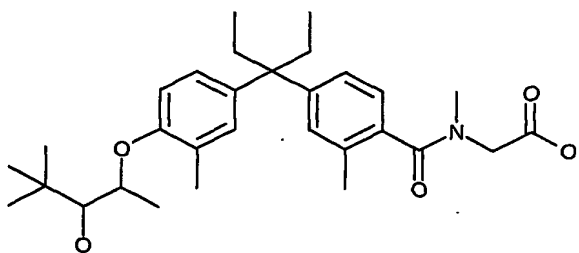
12. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of compounds represented by the formula:



5



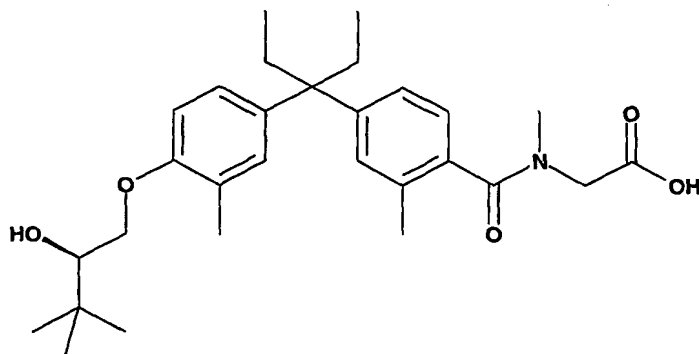
or



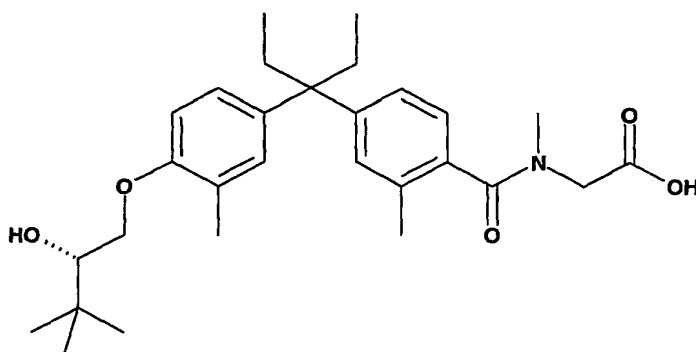
10

13. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of compounds represented by the formula::

-346-



or



5

14. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a pharmaceutical formulation comprising a compound of claim 1 to 13 together with a pharmaceutically acceptable carrier or diluent therefor.

10

15. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a compound of claim 1 to 13 in an amount of from about 0.0001 mg/kg/day to about 50 mg/kg/day of body weight of an active compound of this invention.

15

16. Use of the compound of claims 1 to 13 for the manufacture of a medicament for preventing or alleviating the effect of fMustard.

20